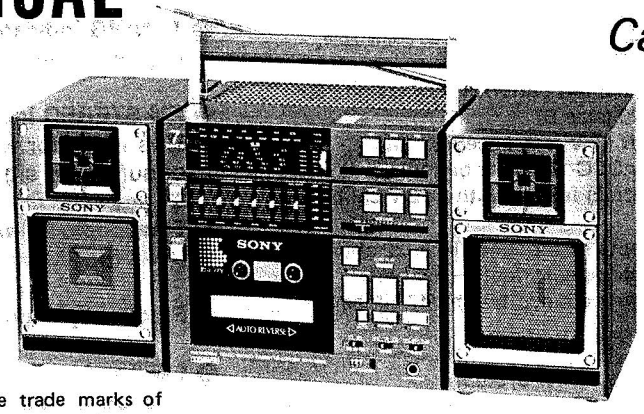
CFS-9900

SERVICE MANUAL

E Model
Canadian Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

Tape Transport Mechanism Type	MF-ZX11-73

Tuner section
System — FM stereo, FM/AM superheterodyne tuner

FM tuner section
Tuning range — 87.6–108 MHz
Antenna — Telescopic antenna

MW tuner section
Tuning range — 530–1,605 kHz
Antenna — Built-in ferrite bar antenna

SW tuner section

	SW1	SW2	SW3	SW4	SW5
Tuning range	5.95–6.2 MHz	9.5–9.8 MHz	11.7–12.0 MHz	15.1–15.5 MHz	17.6–18.0 MHz
Antenna	Telescopic antenna				

Cassette deck section
Recording system — 4-track 2-channel stereo
Frequency response
DOLBY NR OFF
With TYPE IV cassette (Sony METALLIC cassette)
40–16,000 Hz
With TYPE II cassette (Sony CD-α cassette)
40–15,000 Hz
With TYPE I cassette (Sony BHF cassette)
40–14,000 Hz

Amplifier section
Continuous RMS power output
22 W + 22 W
(6 ohms, at 1 kHz, at 10% harmonic distortion) at ac operation
4 W + 4 W (at 10% harmonic distortion) at dc operation

Inputs

	Sensitivity	Impedance
CD/AUX (phono jacks)	440 mV	47 kilohms
PHONO (phono jacks)	4 mV	47 kilohms
MIX MIC (mini jack)	2.5 mV	3.3 kilohms

— Continued on page 2 —

0dB = 0.775 V

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

FM/MW/SW 1-5 7BAND STEREO CASSETTE-CORDER

SONY®

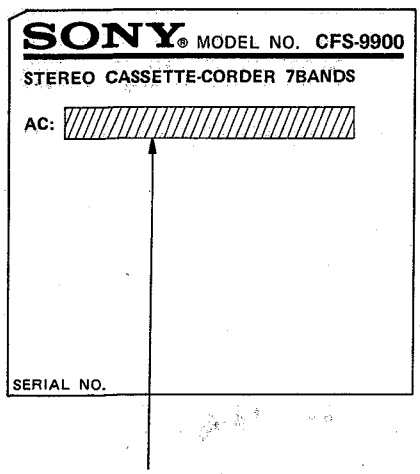
TC

MICROFILM

Power requirements	Canadian model: 120 V ac, 60 Hz (110, 120, 220 or 240 V ac adjustable) E model: 110, 120, 220 or 240 V ac adjustable, 50/60 Hz 15 V dc, ten batteries IEC designation R20 (size D) DC IN 12 V jack accepts: Sony DCC-16AE car battery cord (optional) for use with a 12 V car battery
Outputs	
HEADPHONES	Accepts headphones of 8–32 ohms
SPEAKER	Accept speakers of 6–16 ohms
LINE OUT	level/impedance 250 mV/47 kilohms
Speaker section	
Speaker system	2-way speaker system Woofer: 77 cm², flat type Tweeter: 5 cm dia., cone type
Power handling capacity	Music 50 watts Nominal 25 watts
Frequency range	50 Hz–20 kHz
Impedance	6 ohms
Dimensions	Approx. 120 × 203 × 192.5 mm (w/h/d) ($4\frac{3}{4}$ × 8 × $7\frac{5}{8}$ inches)
Weight	Approx. 1.5 kg (3 lbs 5 oz) net per unit
General	
Power consumption	Canadian model: 52 watts E model: 46 watts
Dimensions	Approx. 465 × 257 × 205 mm (w/h/d) ($18\frac{3}{8}$ × $10\frac{1}{8}$ × $8\frac{1}{8}$ inches) incl. projecting parts and controls
Weight	Approx. 9.6 kg (21 lbs 3 oz) incl. batteries

MODEL IDENTIFICATION

– Specification Label –



Canadian model: 120 V 60 Hz 52 W
E model: 110/120/220/240 V ~ 50/60 Hz 46 W

FUNCTION OF CONTROLS

Tuner section

❶ TUNING indicator
Lights up when a signal is tuned in accurately.

❷ FM STEREO indicator
This indicator will light when an FM stereo program of sufficient signal strength is tuned in.

❸ Telescopic antenna
Used for FM or SW reception.

❹ Frequency scale

❺ SW band selector
Choose the desired SW band, after pressing the SW band select button.

❻ Band select buttons
Select the desired band, FM, MW or SW.

❼ TUNING knob
Turn the tuning knob to the left for a lower frequency and to the right for a higher one.

Amplifier section

❽ POWER switch

❾ GRAPHIC EQUALIZER controls
Slide downwards or upwards to equalize the reproduced sound. When the equalizer is not used, set the controls to 0 (center position).

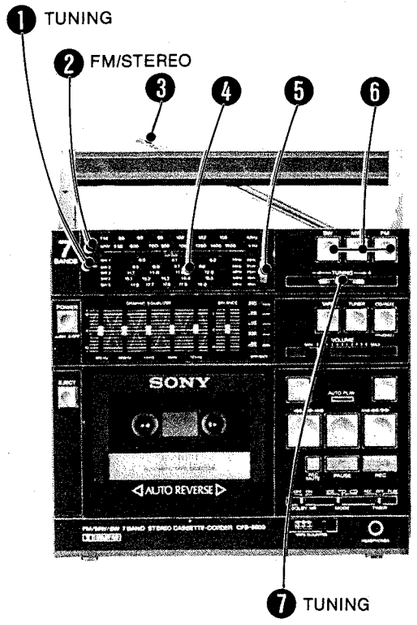
Frequency coverage of each equalizer control

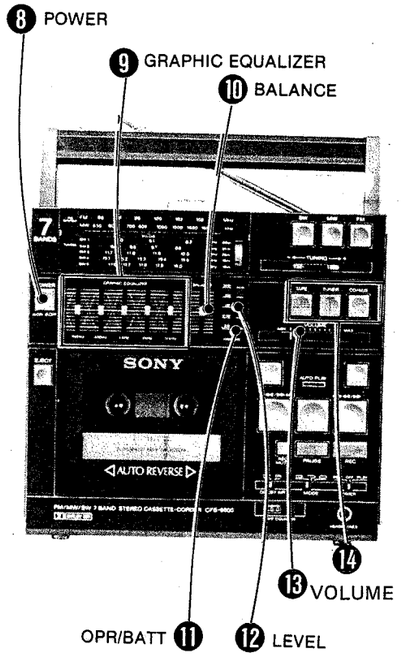
100 Hz: Use this control to boost or cut the bass.
400 Hz: Use this control to adjust the middle frequency range such as the human voice and the middle frequencies of instrumental music.
1 kHz: Use this control to provide more presence of vocals.
4 kHz: Use this control to adjust the brightness of sound.
12 kHz: This control effects general treble. Slide downward to reduce high frequency noise, such as tape hiss.

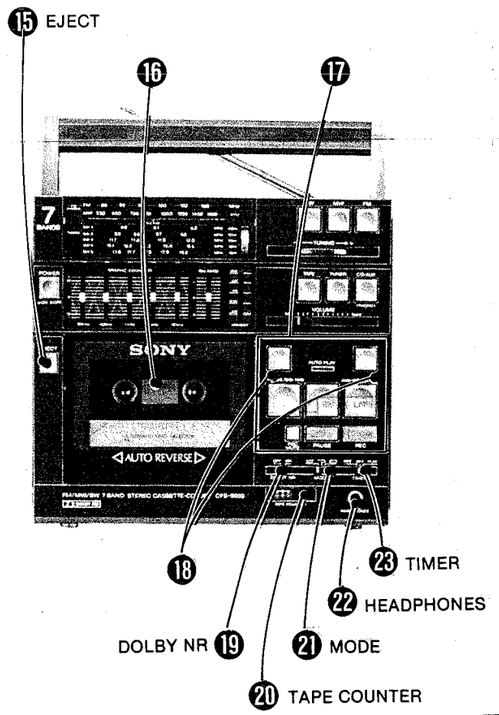
❿ BALANCE control

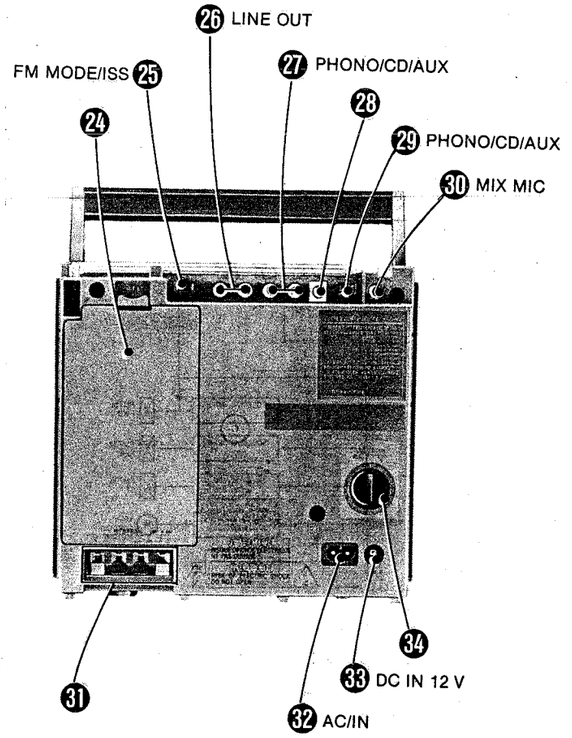
⓫ OPR/BATT (operation/battery) indicator
This indicator lights up while the unit is in operation. On battery operation, this also shows the battery condition.

⓬ Peak power LEVEL meters
These meters show the output level of the power amplifier.









⓭ **VOLUME control**

⓮ **Function selectors**
Press the desired program source button.

Cassette deck section

⓯ **EJECT button**
Press this button to open the cassette holder.

⓰ **Cassette holder**

⓱ **Tape operation mode select buttons**
It is possible to switch directly from one mode to another.
▶ FWD (forward) button
▶▶ (fast-forward) button
REC (record) button: Press this button together with the ▶ button to start recording.
■ (stop) button
REC MUTE (record muting) button: Press this button to eliminate unwanted material and to insert a blank space during recording.
◀ REV (reverse) button
◀◀ (fast-reverse) button
AUTO PLAY button: While advancing the tape rapidly to the right or to the left, press this button to play automatically from the beginning of the reverse side or from the front side of the cassette.

⓲ **Tape direction indicators**
Show the direction of the tape transport.

⓳ **DOLBY NR switch**
To record with the Dolby NR* (Noise Reduction) process, set it to ON. To record without the Dolby NR process, set it to OFF.
When playing back, set this switch to the same position used in recording.
*The built-in Dolby NR system reduces tape hiss noise. Since this system operates through both record and playback mode, the DOLBY NR switch should be set to the same position as that used in recording.
"Dolby" and the double-D symbol are trade marks of the Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

⓴ **TAPE COUNTER and reset button**
The tape counter provides a numerical reference point while recording or playing back. To reset the counter to "000", press the reset button.

㉑ **MODE (tape playback mode) selector**
Select the playback mode.
⟲ : For repeat playback of both sides of a cassette.
⊃ : For playing back both sides of a cassette once only.
⇄ : For playing back either the front side or the reverse side of a cassette once only.

㉒ **HEADPHONES jack**
Phone jack for headphones listening.
When the headphones are connected, the speakers are automatically disconnected.

㉓ **TIMER switch**
You can set the unit to record or play back at a predetermined time by connecting any commercially available timer.

rear panel

㉔ **Battery compartment**

㉕ **FM MODE/ISS (interference suppress switch) selector**
FM MODE: Used for FM reception. Normally set the selector to FM ST. Set to MONO when it is hard to hear the broadcast due to noise.
ISS: Used for MW program recording.

㉖ **LINE OUT (line output) jacks (phono jacks)**
For connecting an additional cassette deck to dub a tape or to record the mixed sound of the microphone and the built-in cassette deck.

㉗ **PHONO/CD/AUX input jacks (phono jacks)**
For connecting a CD player, turntable system, or playback only cassette deck.

㉘ **Ground terminal (⏚)**
For connecting the ground wire of a turntable system.

㉙ **PHONO/CD/AUX selector**
PHONO: When connecting a turntable system
CD/AUX: When connecting a CD player or playback only cassette deck.

㉚ **MIX MIC (mixing microphone) jack (minijack)**
For connecting a microphone for mixing.

㉛ **Speaker terminal**
Connect the speaker system with the supplied speaker cords.

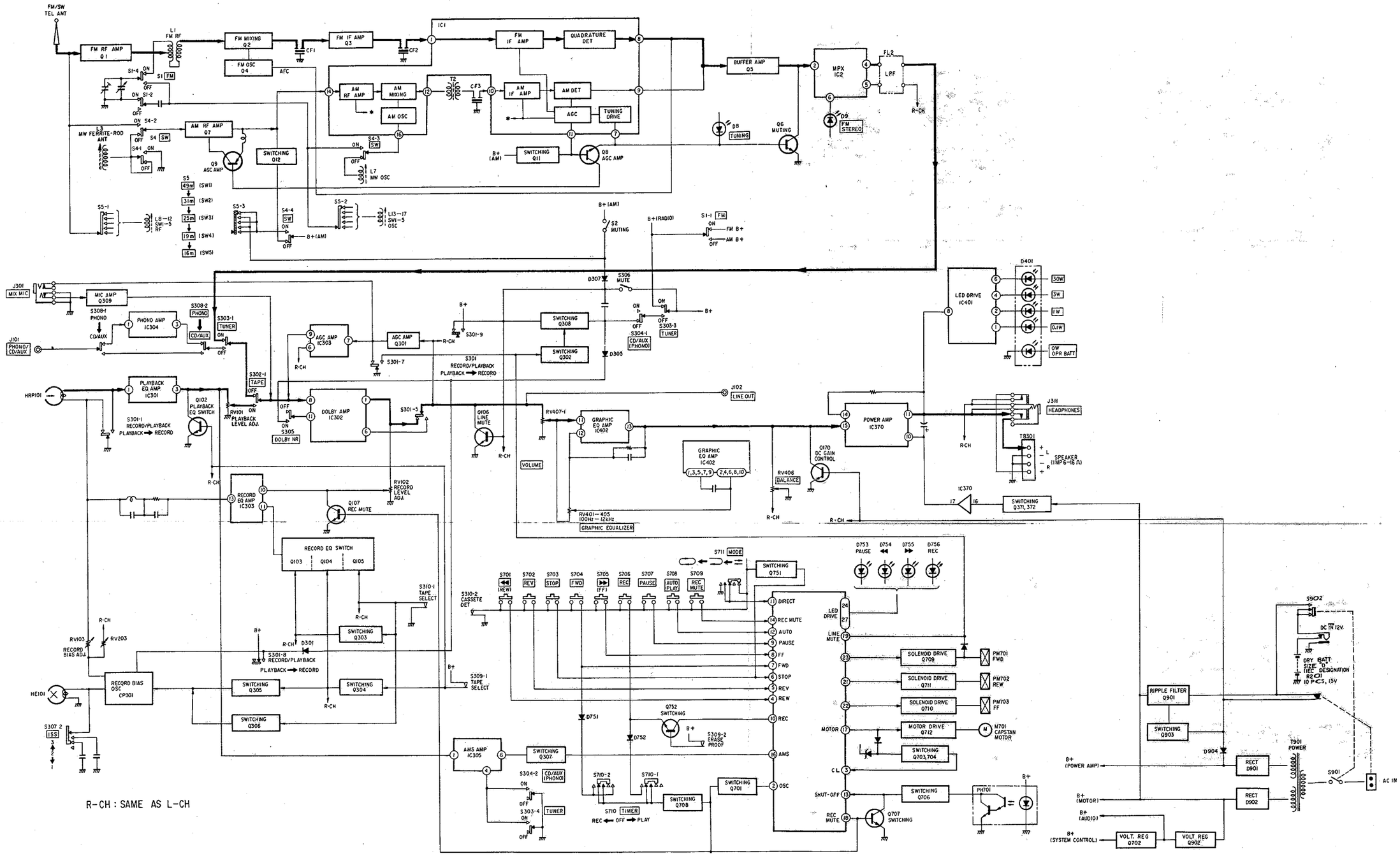
㉜ **AC IN (power input) socket**

㉝ **DC IN (external power input) 12 V jack**

㉞ **Voltage selector**

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

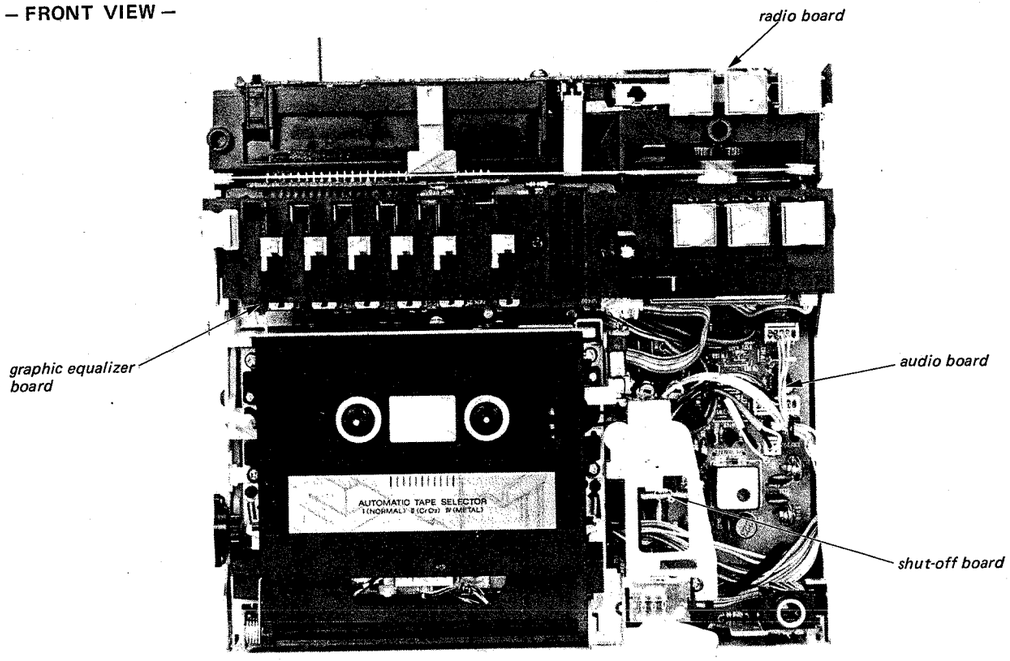


SECTION 2
DISASSEMBLY

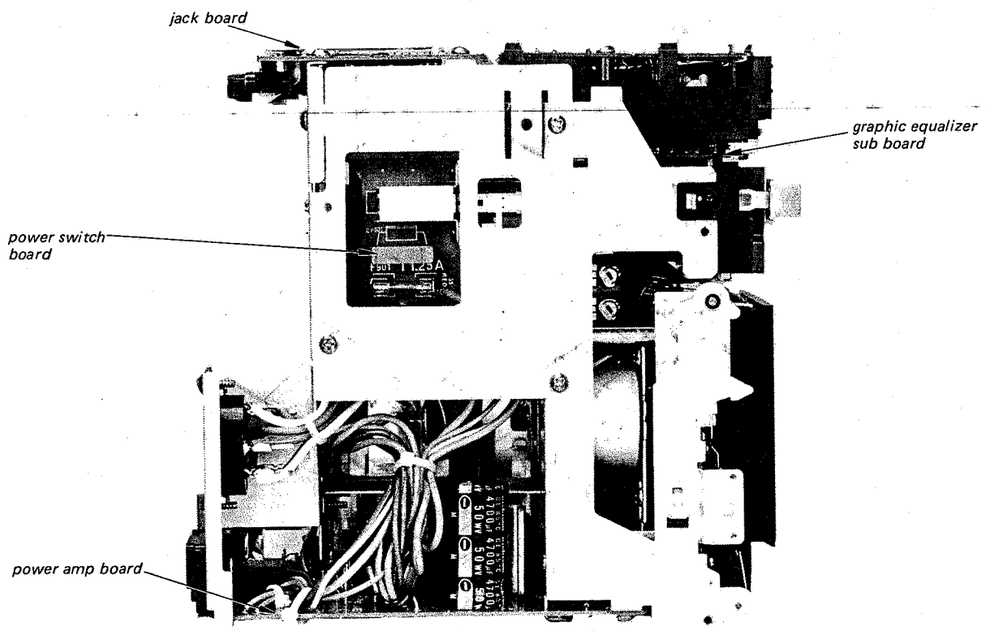
Note: Follow the disassembly procedure in the numerical order given.

REFERENCE PHOTO (with main cabinet and front panel removed)

– FRONT VIEW –

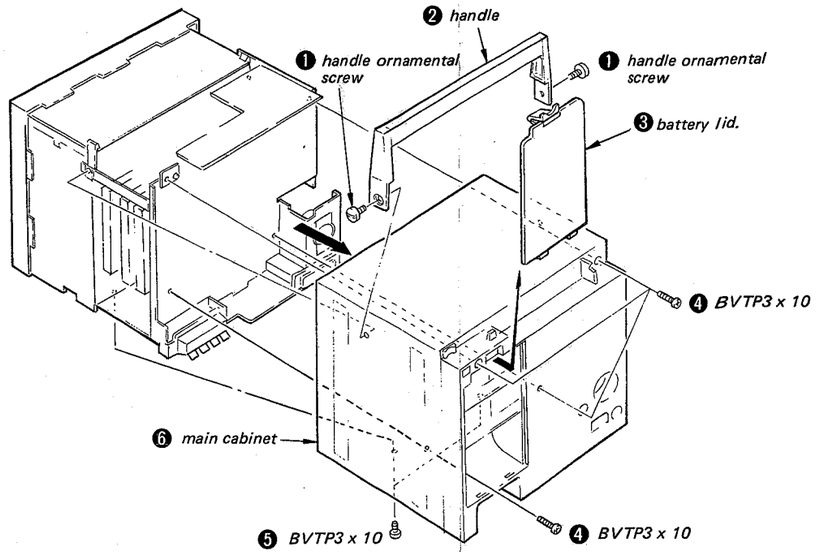


– LEFT SIDE VIEW –

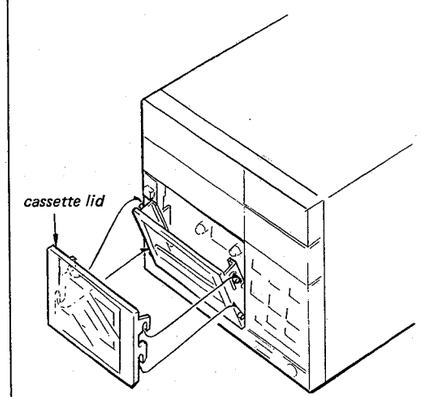


2-1. REMOVAL

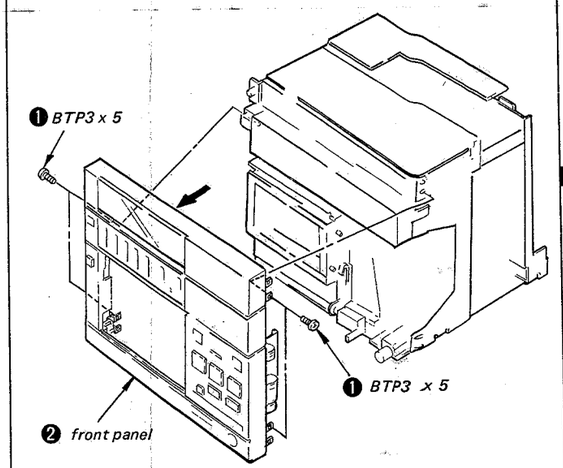
MAIN CABINET



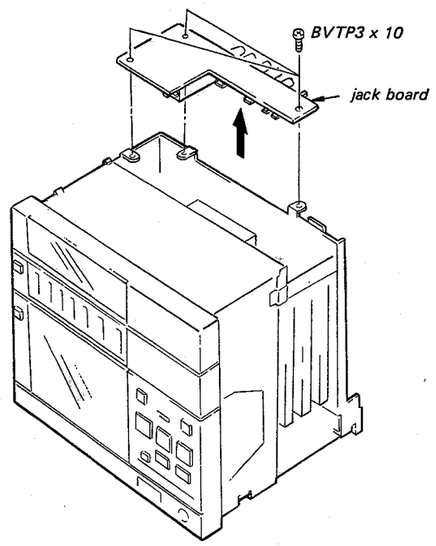
CASSETTE LID



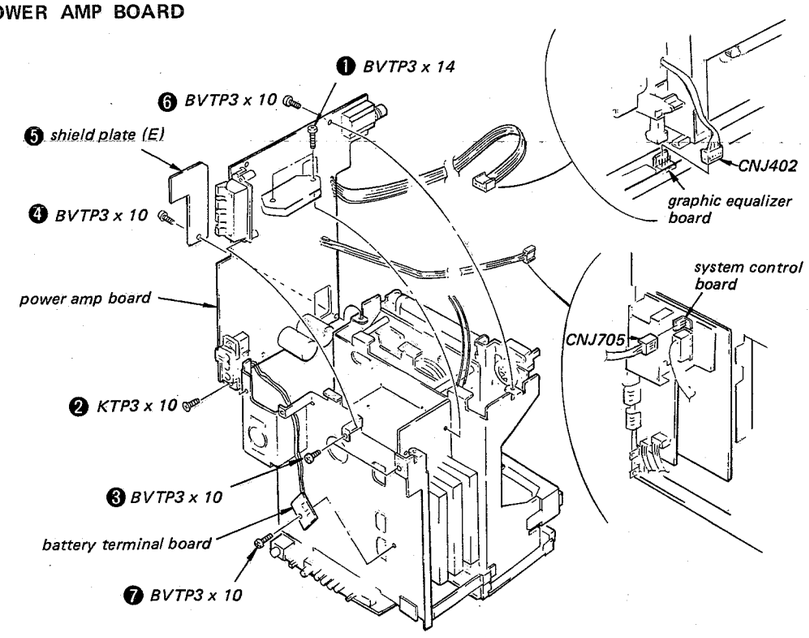
FRONT PANEL



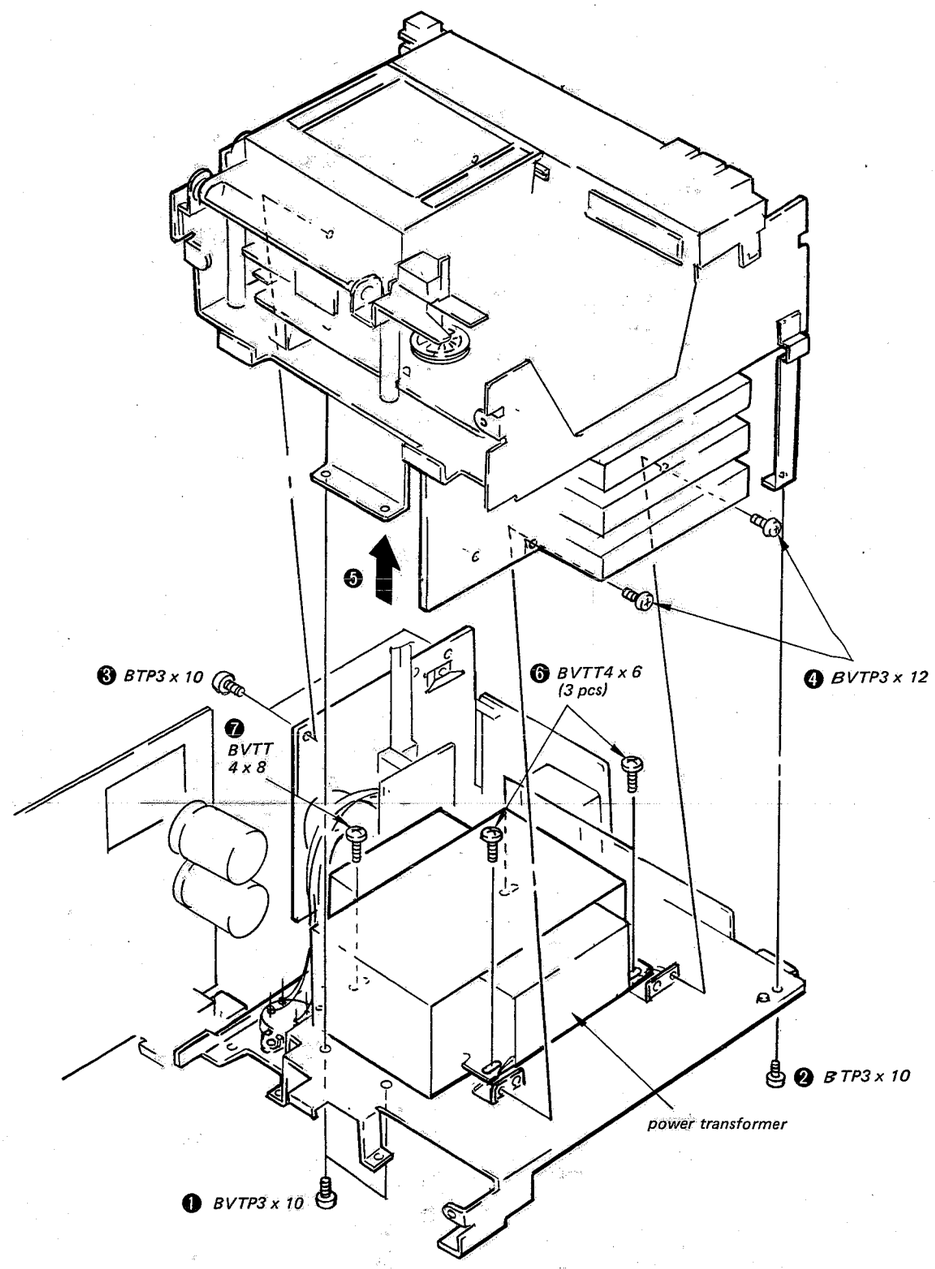
JACK BOARD



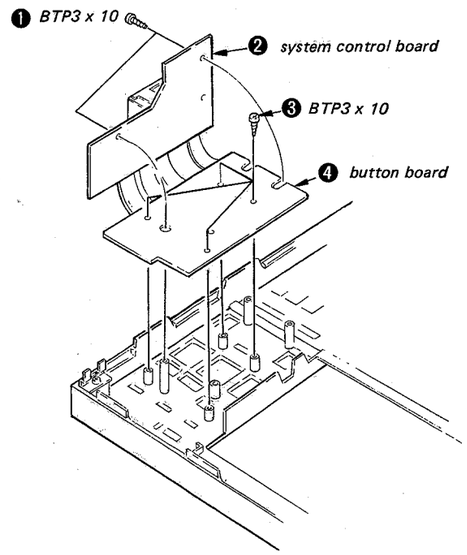
POWER AMP BOARD



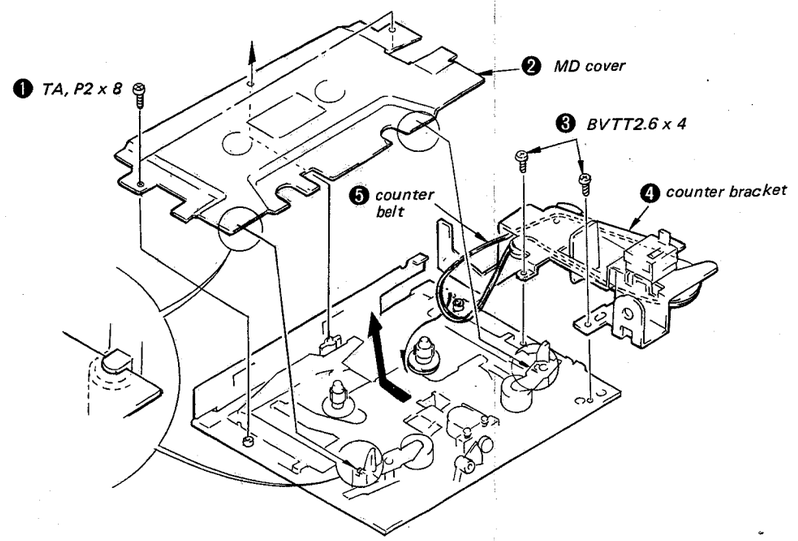
POWER TRANSFORMER



BUTTON BOARD / SYSTEM CONTROL BOARD

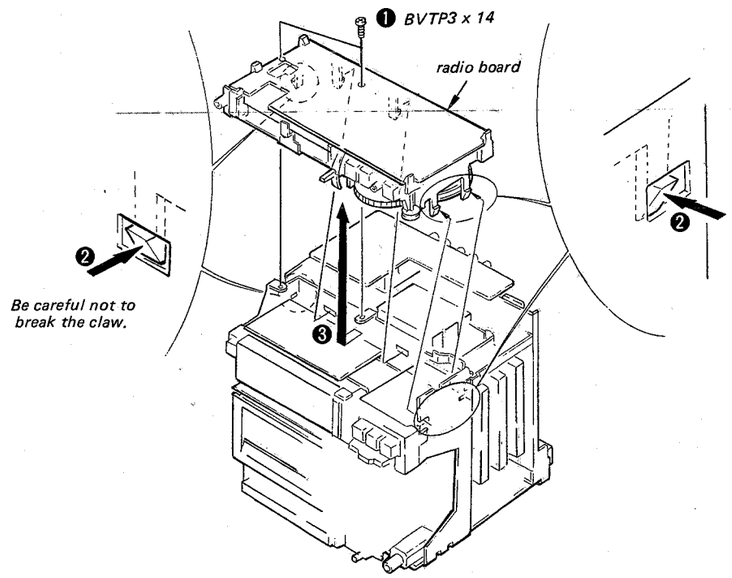


MD COVER and COUNTER BELT

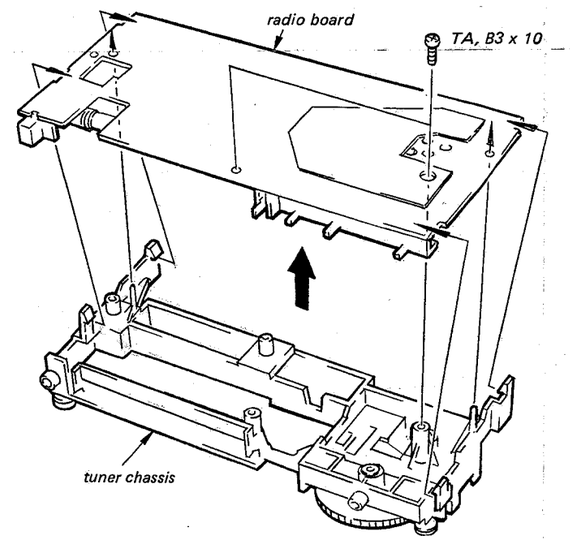


FRONT PANEL
(See page 8.)

RADIO BOARD (1)

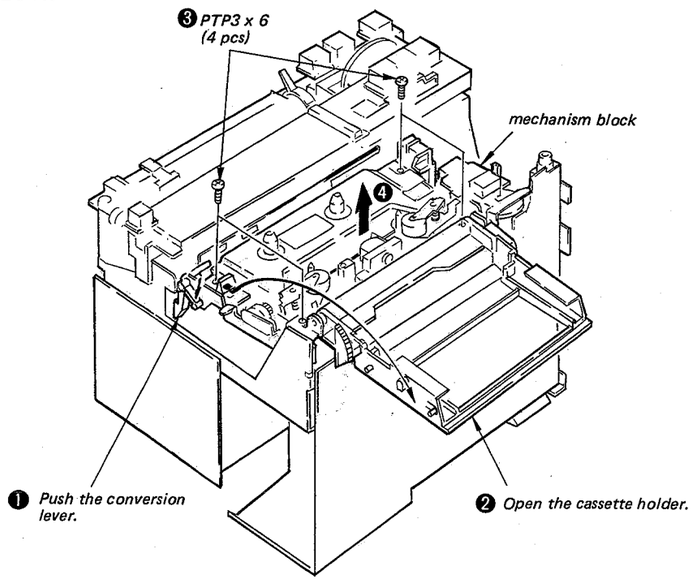


RADIO BOARD (2)

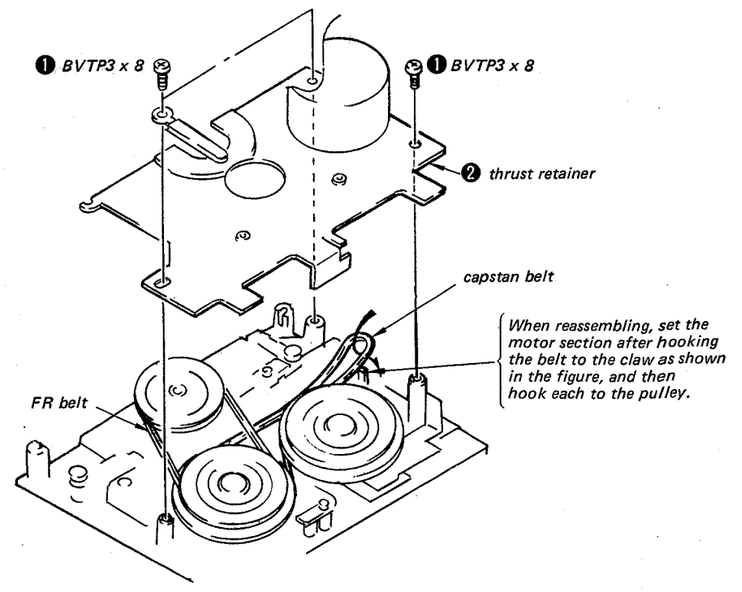


DIAL CORD STRINGING
(See page 15.)

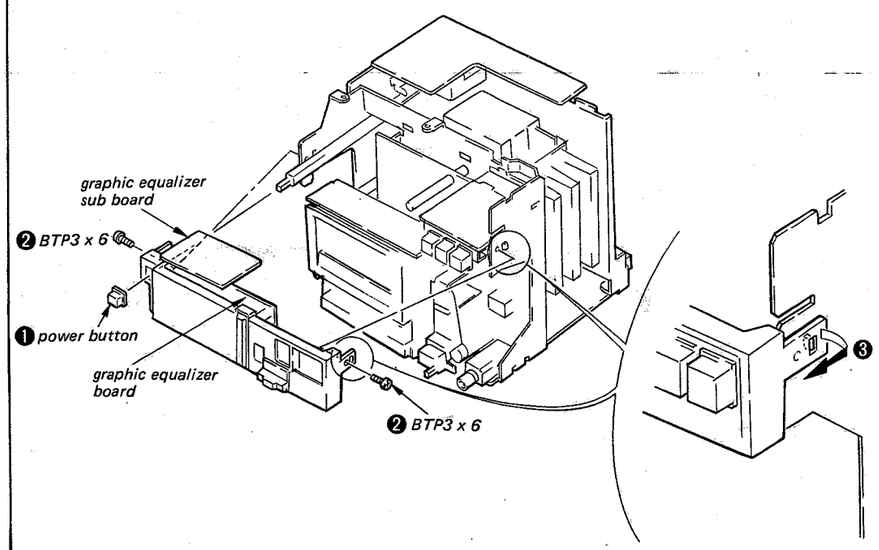
MECHANISM BLOCK



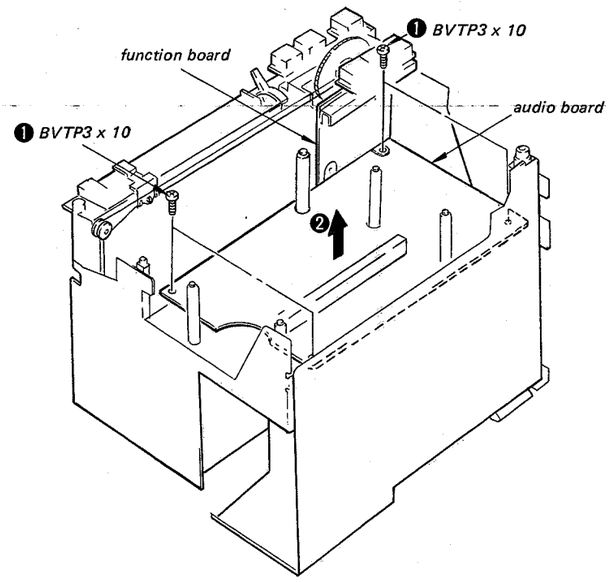
CAPSTAN BELT and FR BELT


❶ BVTP3 x 8
❶ BVTP3 x 8
❷ thrust retainer
capstan belt
When reassembling, set the motor section after hooking the belt to the claw as shown in the figure, and then hook each to the pulley.
FR belt

GRAPHIC EQUALIZER BOARD / GRAPHIC EQUALIZER SUB BOARD

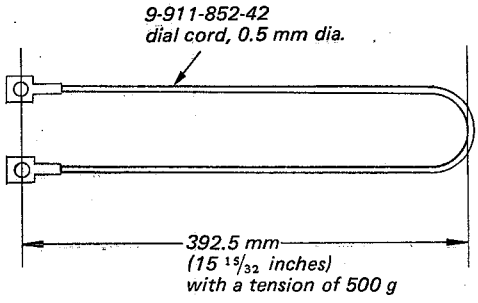


AUDIO BOARD / FUNCTION BOARD

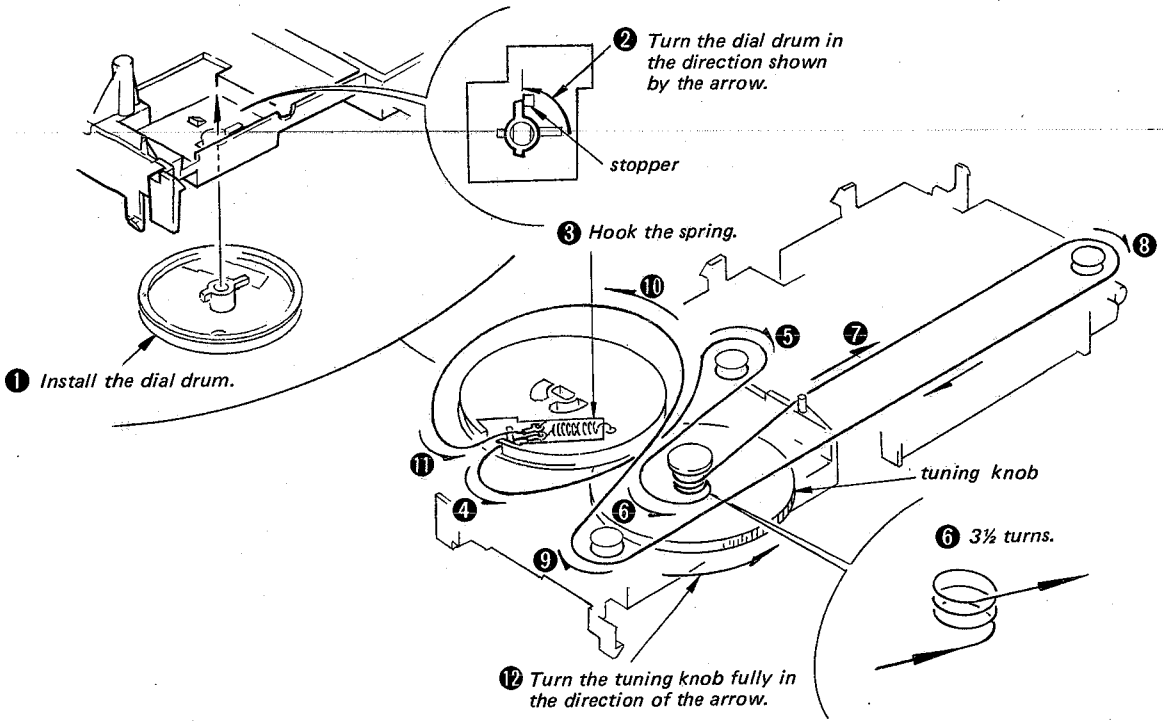


2-2. DIAL CORD STRINGING

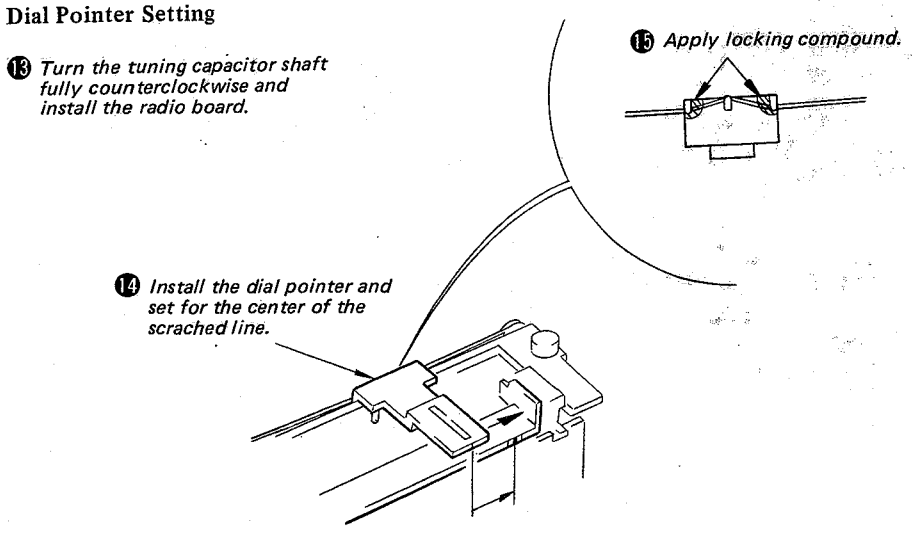
1) Dial Cord Preparation



2) Dial Cord Stringing


❷ Turn the dial drum in the direction shown by the arrow.
stopper
❸ Hook the spring.
❶ Install the dial drum.
tuning knob
❻ 3½ turns.
⓬ Turn the tuning knob fully in the direction of the arrow.

3) Dial Pointer Setting


⓭ Turn the tuning capacitor shaft fully counterclockwise and install the radio board.
⓯ Apply locking compound.
⓮ Install the dial pointer and set for the center of the scrached line.

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

Notes

1. Before the adjustment, wipe the following parts with a cloth moistened with alcohol.

REC/PB head	pinch roller
erase head	rubber belt
capstan	idler

2. Degauss the REC/PB head with a head degausser.
3. Do not use a magnetized screwdriver for adjustments.
4. After adjusting, screw-lock the adjusted parts.
5. Unless otherwise indicated, perform adjustments at specified voltage.

Torque Measurement

Torque	Torque Meter	Specification
FWD torque	CQ-102C	24 – 55 g·cm (0.33 – 0.76 oz·inch)
FWD back tension torque	CQ-102C	2 – 5 g·cm (0.03 – 0.07 oz·inch)
REV torque	CQ-102RB	24 – 55 g·cm (0.33 – 0.76 oz·inch)
REV back tension torque	CQ-102RB	3 – 6 g·cm (0.04 – 0.08 oz·inch)
FF-REW torque	CQ-201B	75 – 130 g·cm (1.04 – 1.80 oz·inch)

Head Height Adjustment

Be sure to perform this adjustment when replacing the erase head, head mounting table assembly, or REC/PB head.

– PB mode –

1. Use a mirror cassette and adjust so that there is no tape curl.
2. Change the head mounting table assembly height adjustment shim and REC/PB head height adjustment shim so that the REC/PB head core position is correct for both FWD/REV.

Erase Head Height Adjustment Shim

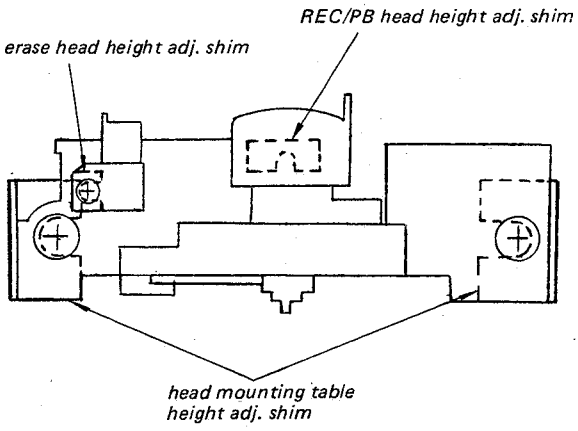
Part No.	t (mm)
3-573-466-01	0.1
3-573-466-11	0.2

Head Mounting Table Height Adjustment Shim

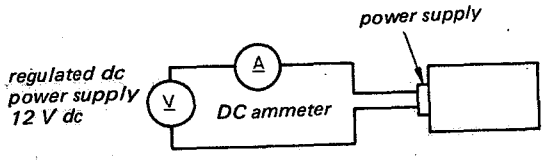
Part No.	t (mm)
3-313-757-01	0.1
3-313-757-11	0.15
3-313-757-21	0.2

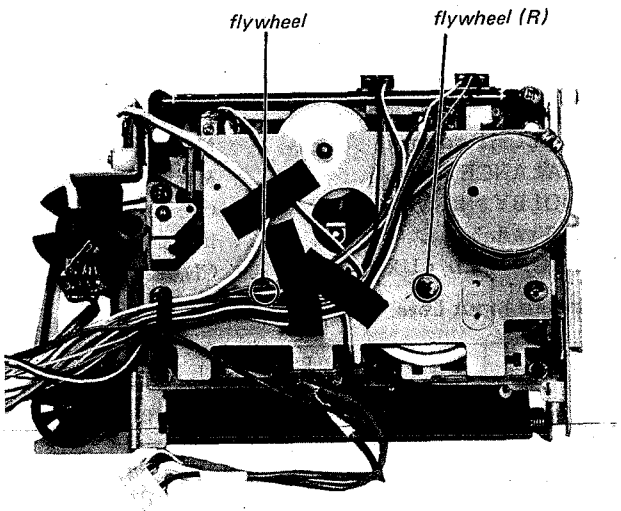
REC/PB Head Height Adjustment Shim

Part No.	t (mm)
3-313-758-01	0.1
3-313-758-11	0.15
3-313-758-21	0.2



Thrust Play Adjustment



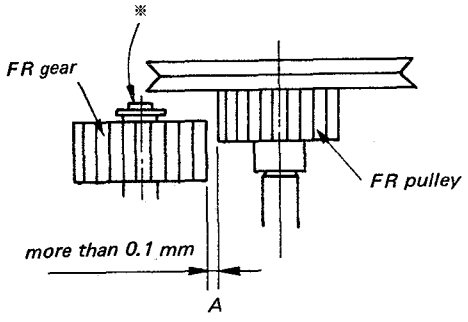


1. Loosen the adjustment screw by turning counter-clockwise.
2. Put in FWD mode and turn the adjustment screw clockwise little by little to tighten.
3. Current will increase suddenly at a certain point. Loosen ¼ turn from this point and set.
4. After adjustment, lock the screw.

Referecne: thrust screw pitch
0.5mm/1 rotation
Specification: flywheel · flywheel (R)
within 0.15 – 0.35 mm

FR Gear Clearance Adjustment

Put in STOP mode, and bend the part marked ※ so that the gap A is more than 0.1 mm.



3-2. ELECTRICAL ADJUSTMENTS

TAPE RECORDER SECTION

Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

GRAPHIC EQUALIZER control . . . . . Mechanical mid.
VOLUME control . . . . . MIN.
BALANCE control . . . . . Mechanical mid.
DOLBY NR switch . . . . . OFF.
ISS switch . . . . . II.
PHONO, CD/AUX switch . . . . . CD/AUX.

Standard Input Level

	MIX MIC	PHONO	CD/AUX
Source impedance	300 Ω	2.2 kΩ	10 kΩ
input level	4.4 mV (–45 dB)	4 mV (–46 dB)	0.44 V (–5 dB)

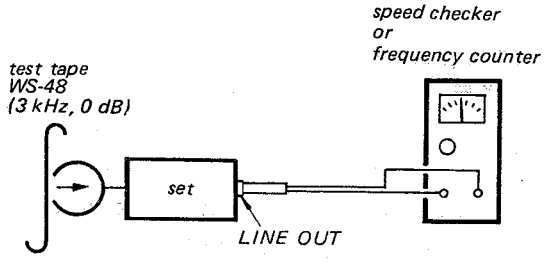
Standard Output Level

	LINE OUT	SPEAKER OUT
Load impedance	47 kΩ	6 Ω
Output level	0.25 V (–9.8 dB)	0.775 V (0 dB)

Tape Speed Adjustment

Procedure:

Mode: forward playback

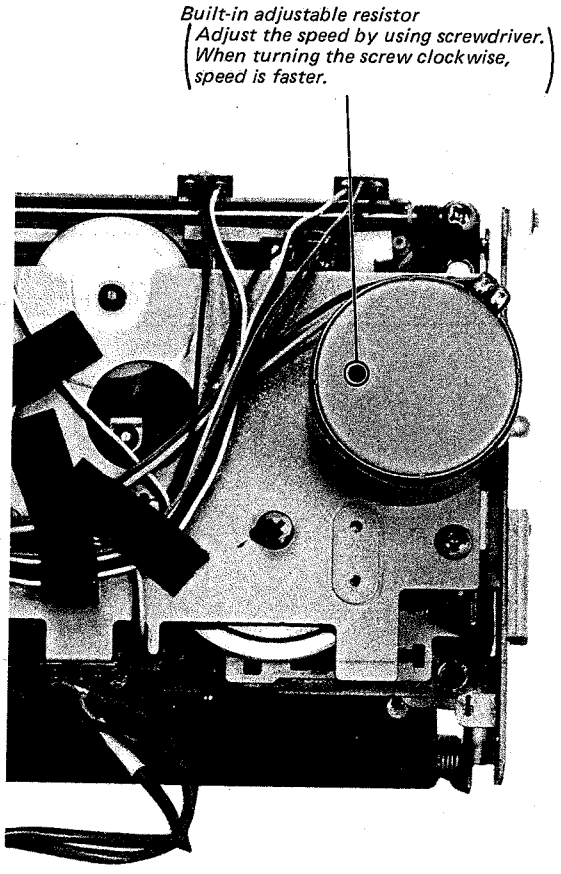


Specification:

Speed Checker	Digital Frequency Counter
±0.5%	2,985 to 3,015 Hz

Frequency difference between the biginning and the end of the tape should be within 1% (30 Hz).

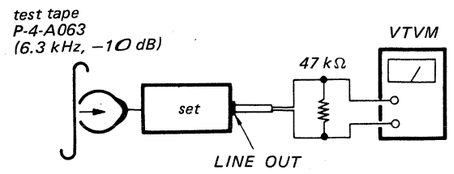
Adjustment Location:



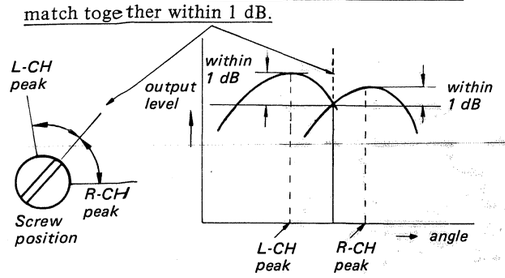
Record/playback Head Azimuth Adjustment

Procedure:

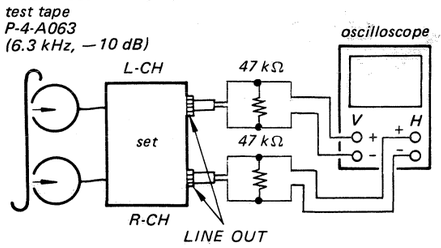
1. Mode: forward playback

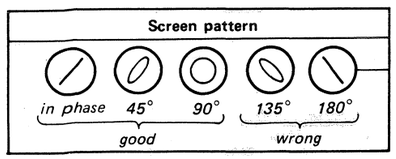


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



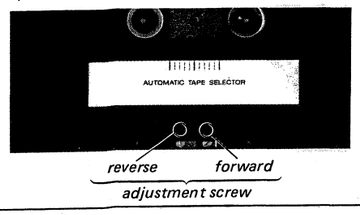
3. Mode: forward playback





4. Select the reverse mode, and repeat the steps 1–3. And then, confirm to obtain the specification in forward mode.
5. After the adjustment, lock the screw with locking compound.

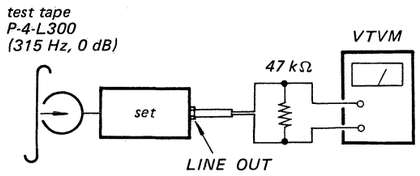
Adjustment Location:



Playback Level Adjustment

Procedure:

Mode: forward playback



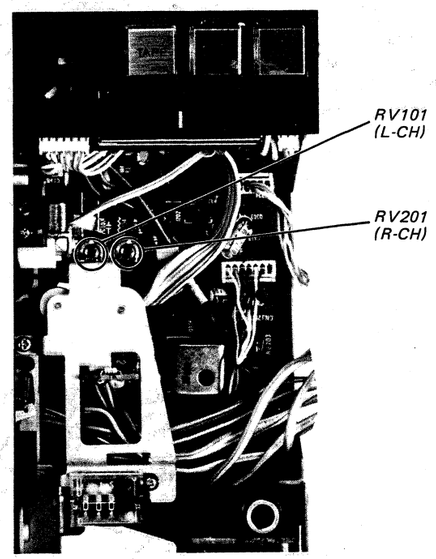
Adjust the RV101 (L-CH) and RV201 (R-CH) so that the specification is met.

Specification:

LINE OUT level: 0.25 to 0.26 V
(−10 to −9.6 dB)
Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

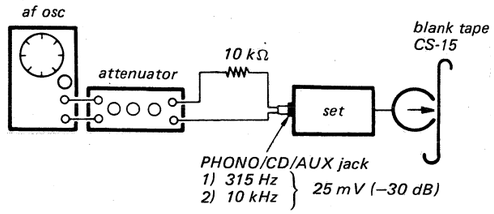
Adjustment Location: audio board



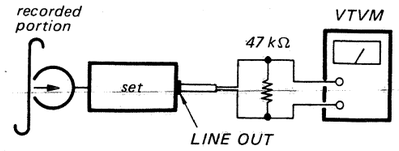
Record Bias Adjustment

Procedure:

1. Mode: record

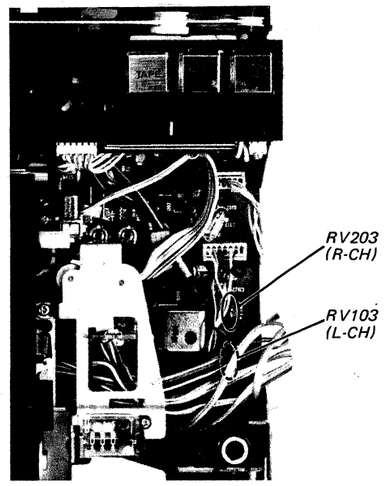


2. Mode: playback



Confirm that the 10 kHz playback output is 0 ±0.5 dB relative to the 315 Hz output. If necessary, adjust RV103 (L-CH), RV203 (R-CH) and repeat the steps given above.

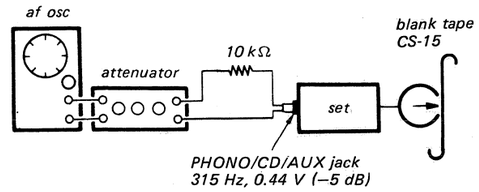
Adjustment Location: audio board



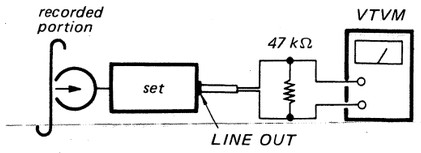
Record Level Adjustment

Procedure:

1. Mode: record



2. Mode: playback

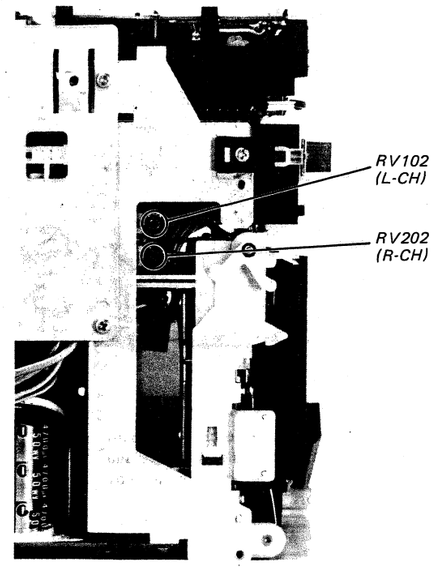


3. Play back the signal recorded in step 1. Confirm that the signal level is within the specification below. If necessary, adjust RV102 (L-CH), RV202 (R-CH) and repeat the step 1-3.

Specification:

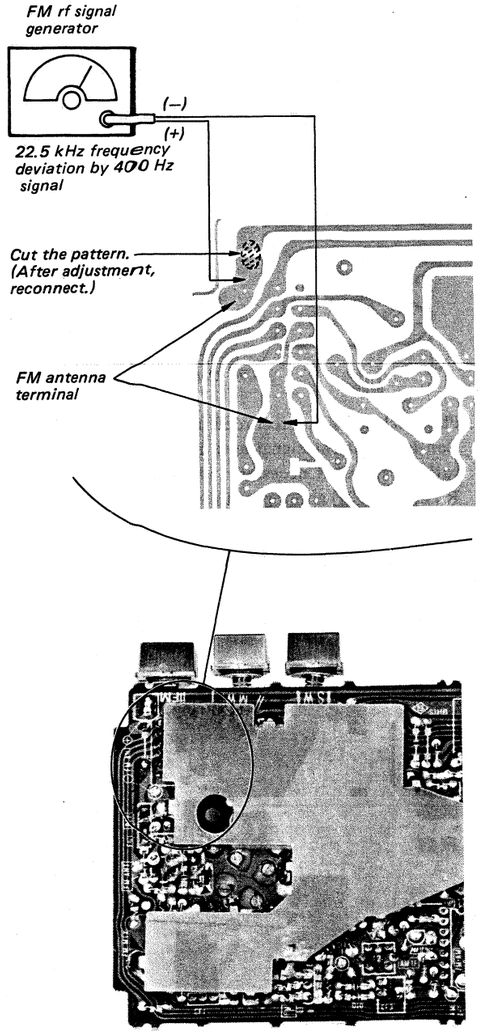
LINE OUT level: 0.24 to 0.27 V
(−10.3 to −9.3 dB)

Adjustment Location: audio board

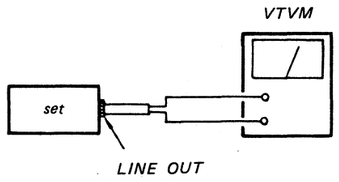


RADIO SECTION

• FM SECTION



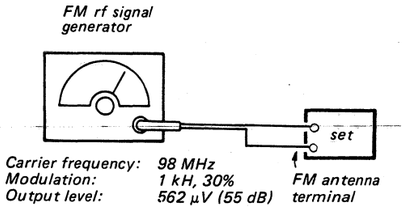
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

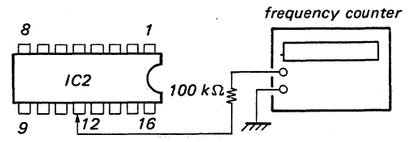


VCO Adjustment

A) Regular Method

Procedure:



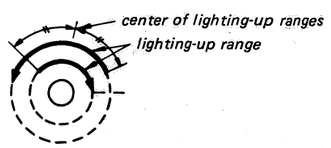


1. Tune the set to 98 MHz.
2. Adjust RV1 for 19 kHz ±0.1 kHz on the counter.

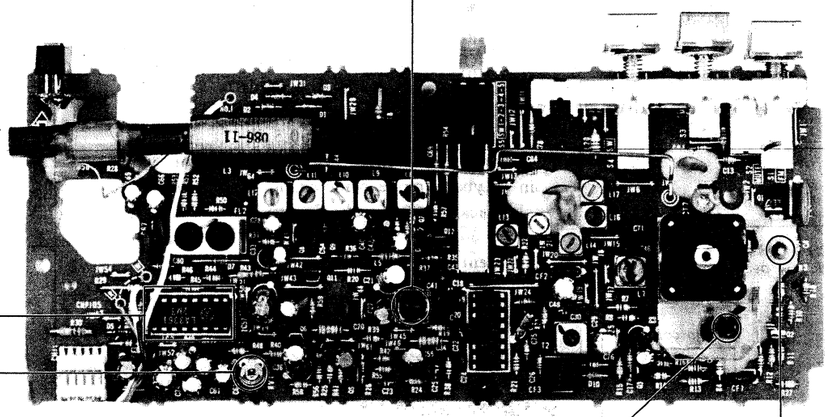
B) Simple Method

Procedure:

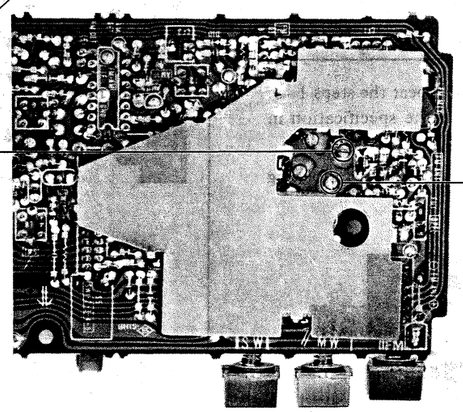
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



FM IF ALIGNMENT (10.7 MHz with no modulation)	
Adjust for 0 V reading on VTVM.	
T1	



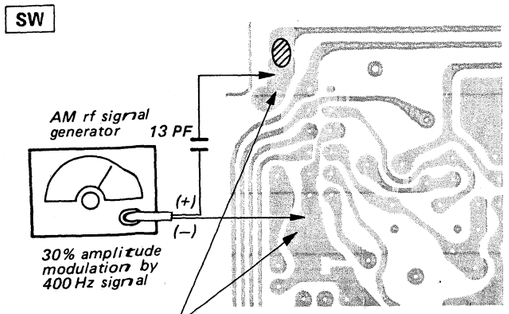
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	86.5 MHz
CT2	109.5 MHz

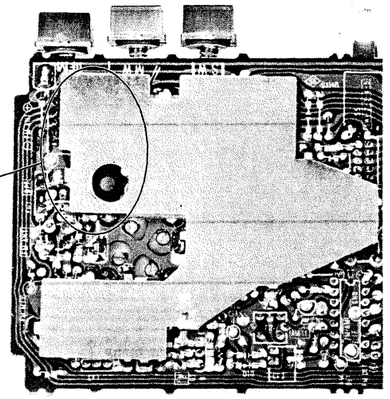


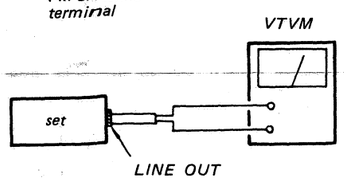
86.5 MHz	L2
109.5 MHz	CT1
Adjust for a maximum reading on VTVM.	
FM FREQUENCY COVERAGE ADJUSTMENT	

• AM SECTION

SW

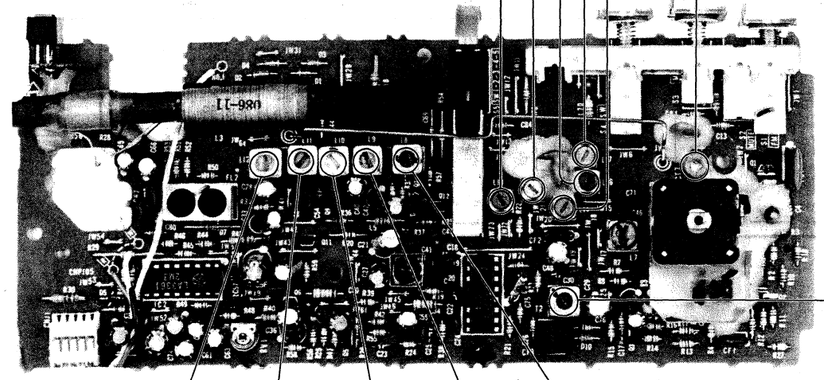






- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

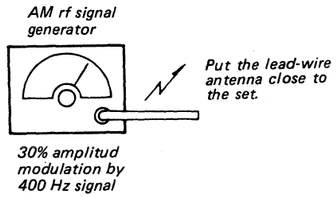
SW FREQUENCY COVERAGE ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L13	5.90 MHz	dial min.	SW1
CT7	6.25 MHz	dial max.	
L14	9.65 MHz		SW2
L15	11.85 MHz		SW3
L16	15.30 MHz		SW4
L17	17.80 MHz		SW5

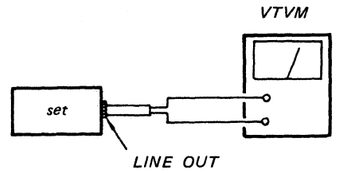


AM IF ALIGNMENT (SW/MW)	
Adjust for a maximum reading on VTVM.	
T2	455 kHz

L12	L11	L10	L9	L8
17.80 MHz	15.30 MHz	11.85 MHz	9.65 MHz	6.075 MHz
SW5	SW4	SW3	SW2	SW1
Adjust for a maximum reading on VTVM.				
SW TRACKING ADJUSTMENT				

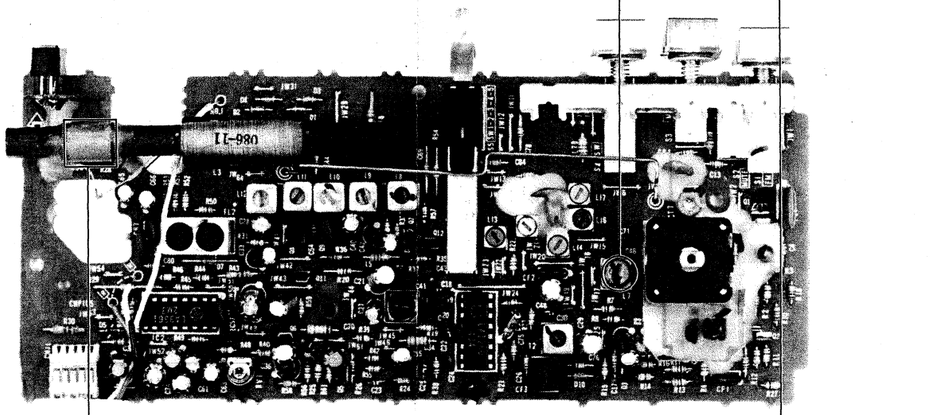
MW



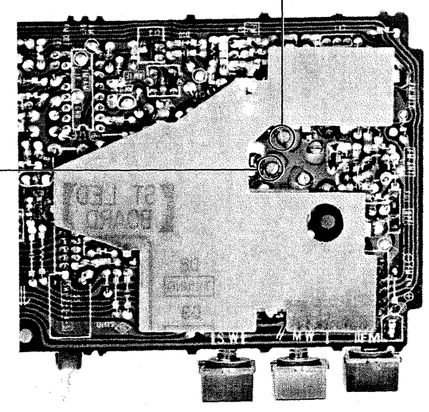


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
520 kHz	1,650 kHz
L7	CT3



L3	CT4
620 kHz	1,400 kHz
Adjust for a maximum reading on VTVM.	
MW TRACKING ADJUSTMENT	



4-1. MOUNTING DIAGRAM – Tuner Section –

– Conductor Side –

● See page 40 for Semiconductor Lead Layouts.

Q,IC	IC2 6 11 8 5 9 7 12 IC1 3 4 2 1
D	5 7 2 4 1 3 10 6

【RADIO BOARD】

FM SIGNAL
A
TO FUNCTION BOARD
RED WHT BLU YEL BLK
1 2 3 4 5
CNJ1

B
TO JACK BOARD

CNP1
1 2 3 4 5

SONY

I-594-548-11

I-615-659-11

L3 MW FERRITE-ROD ANT

FL2 LOW-PASS FILTER

L1 FM RF
L2 FM OSC
L3 MW ANT
L4 SW1 RF
L5 SW2 RF
L6 SW3 RF
L7 MW OSC
L8 SW1 OSC
L9 SW2 OSC
L10 SW3 OSC
L11 SW4 RF
L12 SW5 RF
L13 SW4 OSC
L14 SW5 OSC
L15 FL1 B.P.F
L16
L17
L18
L19
L20

SHIELD PLATE

S1 FM
S2 (MUTE)
S3 MW
S4 S.W ON OFF
S5
49m (SW1)
31m (SW2)
25m (SW3)
19m (SW4)
16m (SW5)

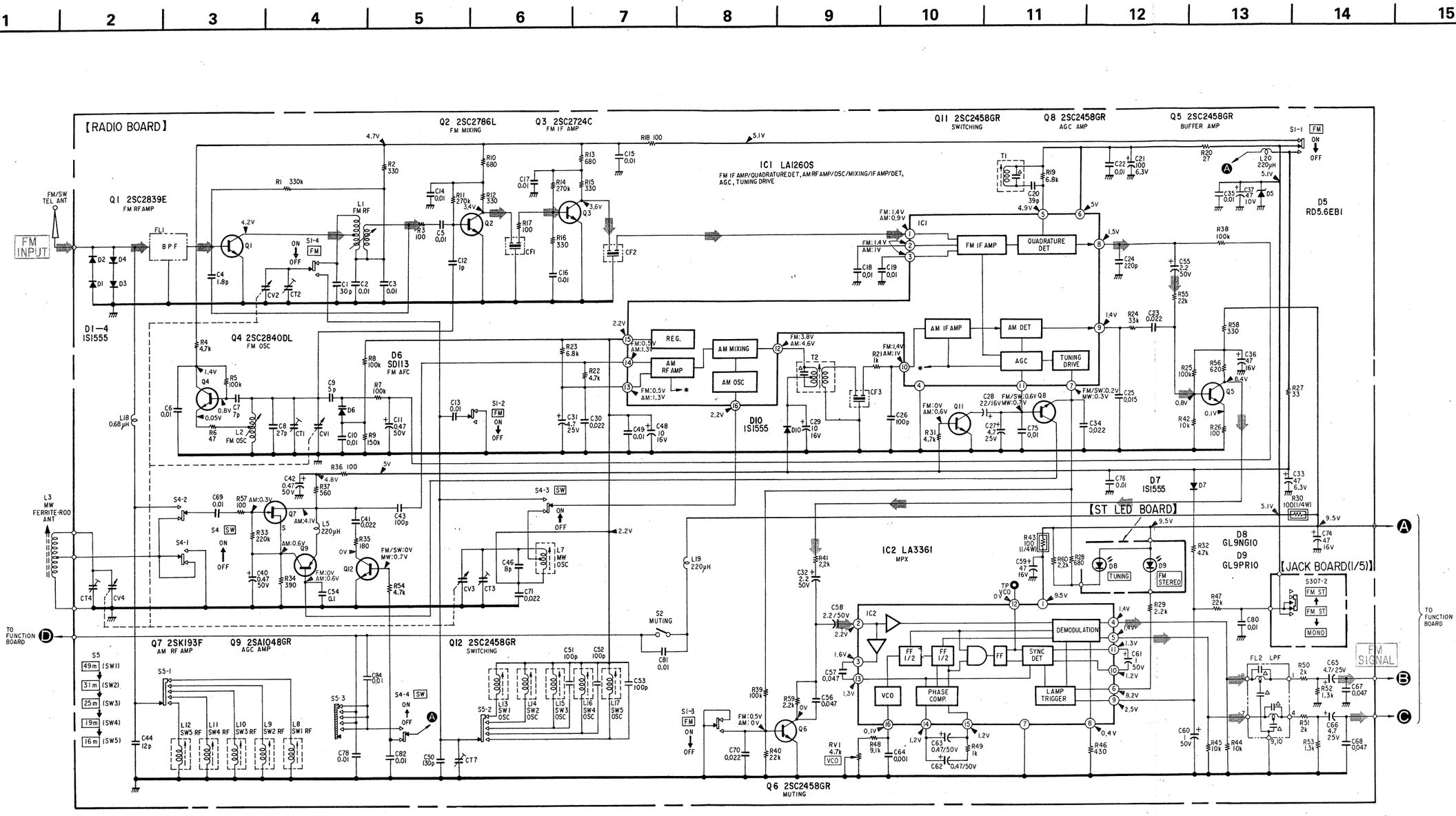
【ST LED BOARD】
D8 TUNING
D9 FM STEREO

【ANT TRANSLATION BOARD】
FM/SW TEL ANT
FM INPUT

Note:

- ○——: parts extracted from the component side.
- ⬚: indicates side identified with part number.
- ▒: B + pattern
- ——→: signal path
- ——→: L-CH signal path
- ——→: R-CH signal path

4-2. SCHEMATIC DIAGRAM — TUNER SECTION —



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6 W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- △ : internal component.
- ▭ : adjustment for repair.
- ▬ : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM.

- Switch

Ref. No.	Switch	Position
S1	FM	ON
S2	MUTE	OFF
S3	AM	OFF

- ▨ : signal path.

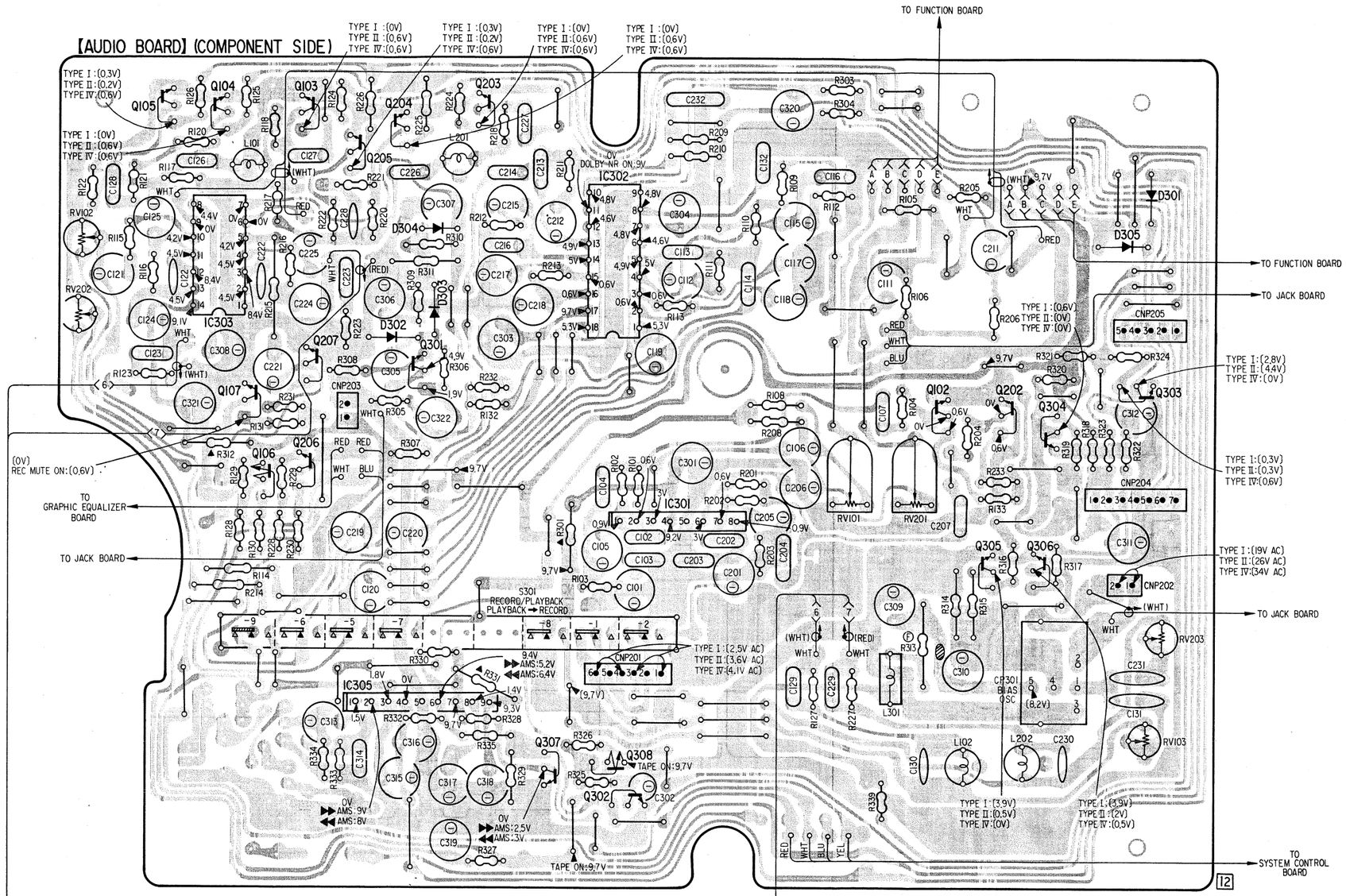
Note: Voltages are measured with a VOM (50kΩ/V).

4-3. MOUNTING DIAGRAM — AUDIO BOARD —

—Component Side —

• See page 40 for Semiconductor Lead Layouts.

【AUDIO BOARD】(COMPONENT SIDE)

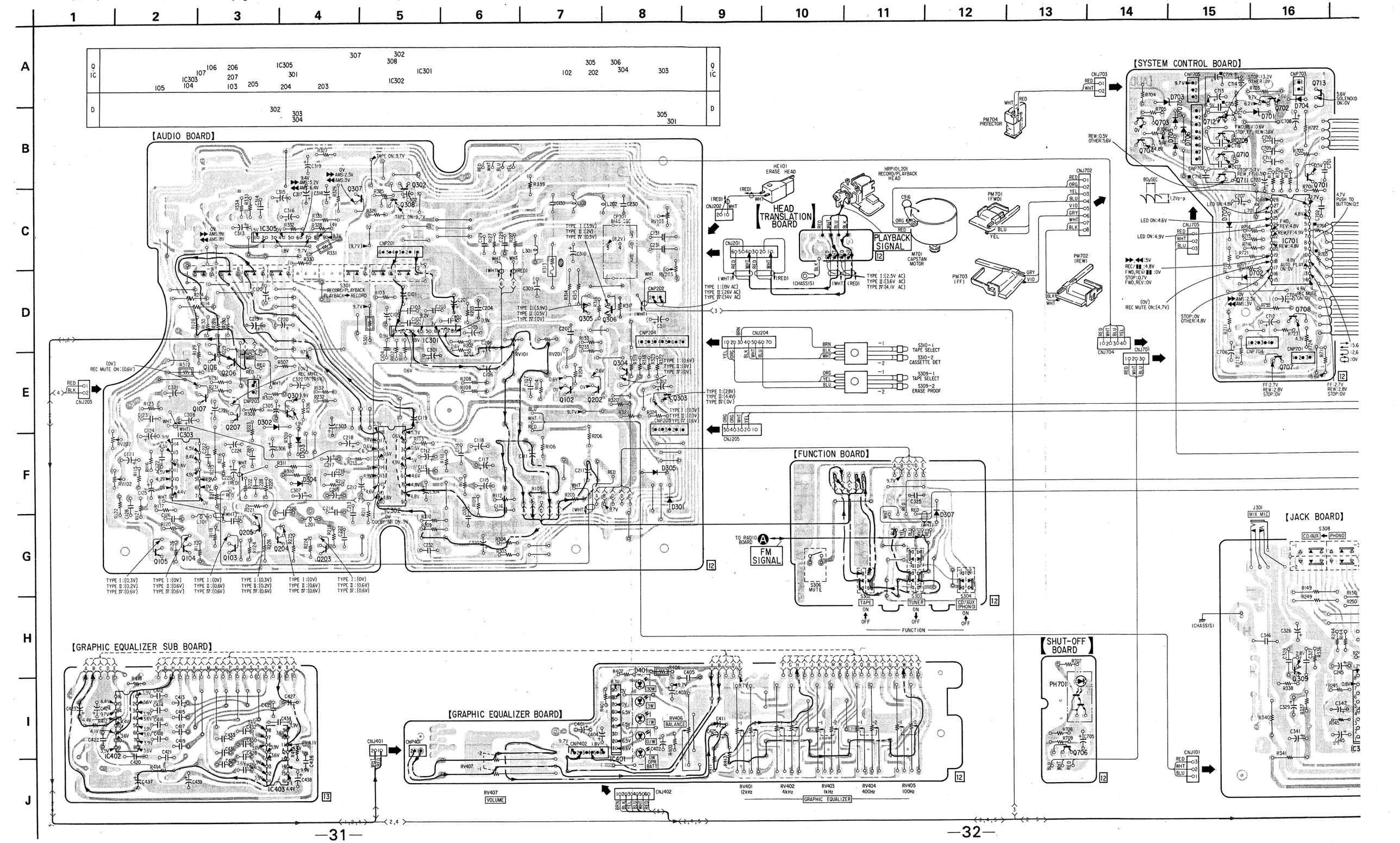


| | | |

4-4. MOUNTING DIAGRAM — AUDIO/SYSTEM CONTROL/POWER SUPPLY SECTION —

— Conductor Side —

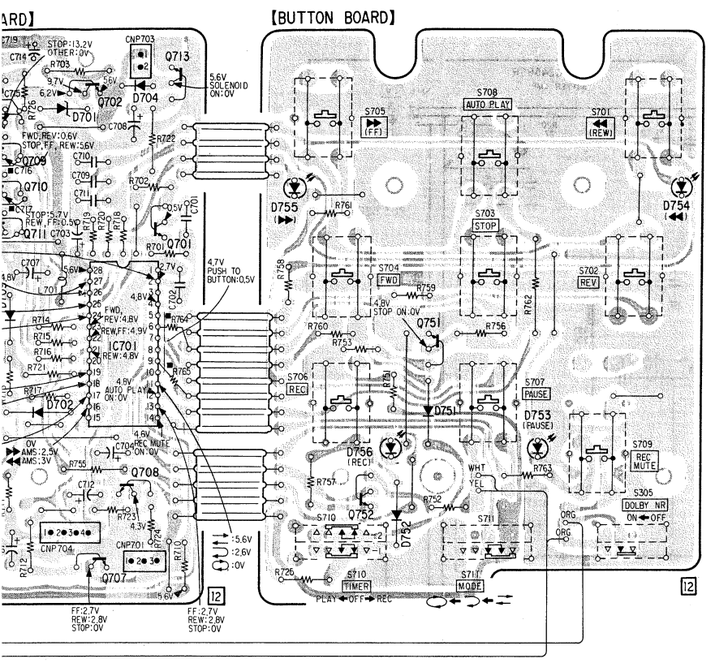
● See page 40 for Semiconductor Lead Layouts.



16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

A B C D E F G H I J

【BUTTON BOARD】

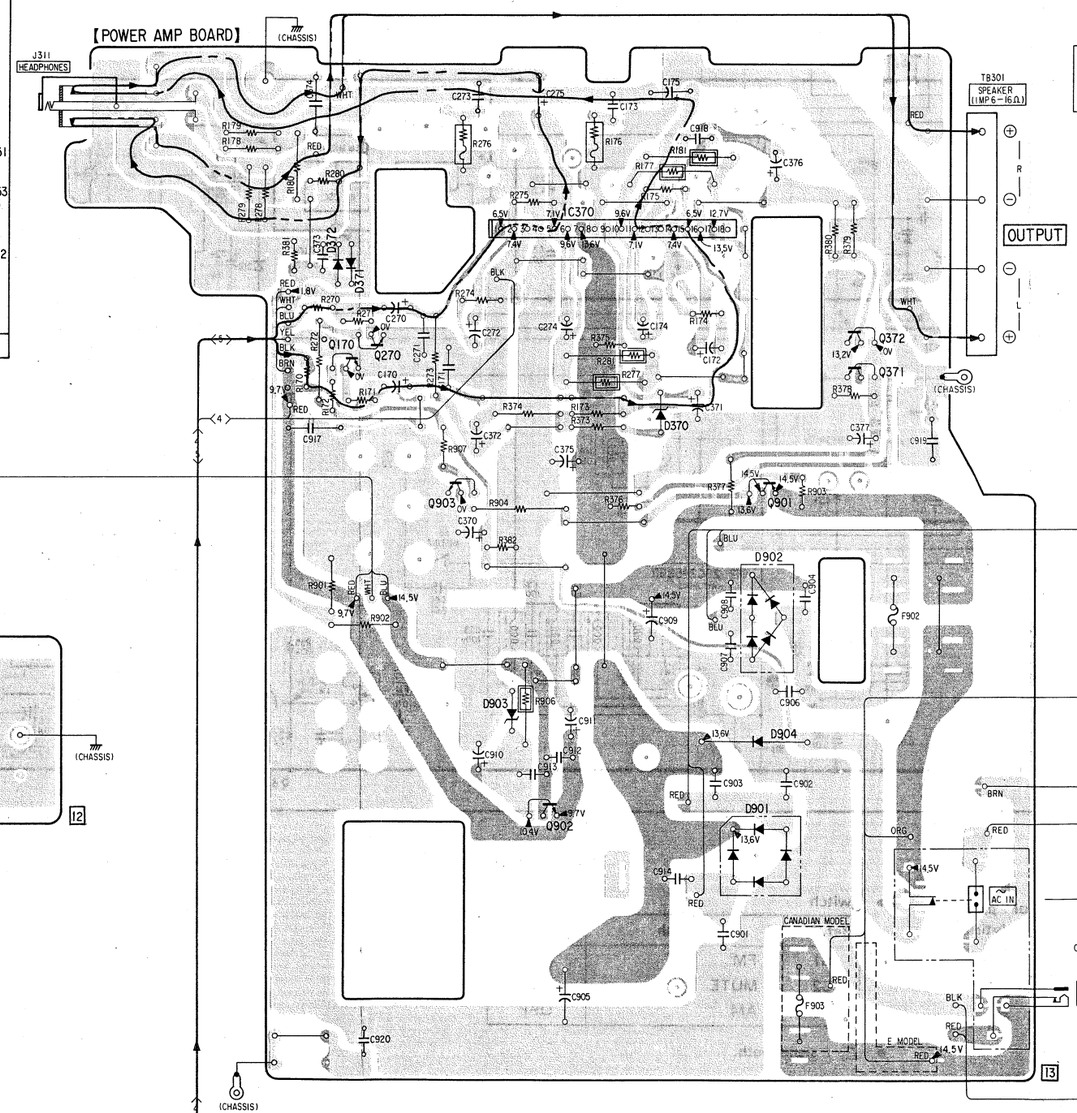


Q,IC	D
702,713	703 704
712	701
703	707
709	706
704	705
710	754
	755
701	
711	
	709
IC701 751	
	702 751
	753
	756
708 752	
	752
707	

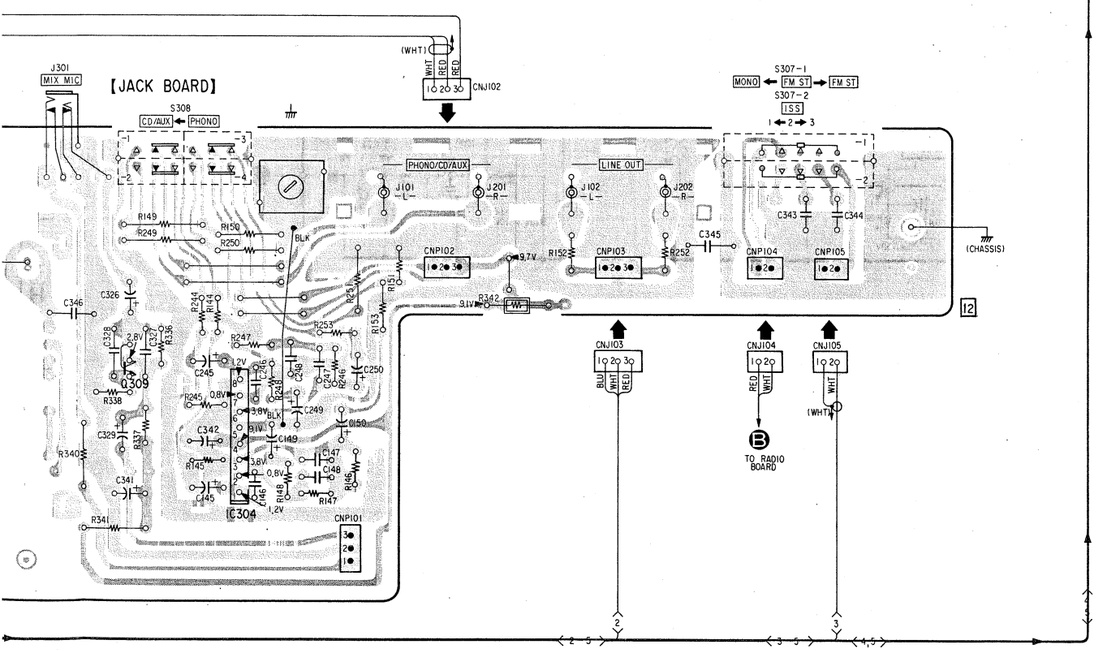
Q IC	170 270 IC370 372 371 903 901 902	Q IC
D	372,371 370 903 902 904 901	D

● ■ : parts mounted from the component side.

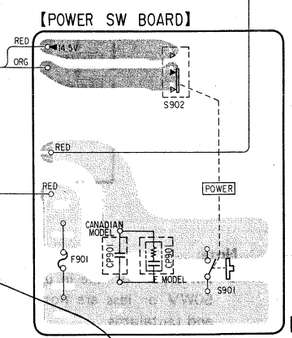
【POWER AMP BOARD】



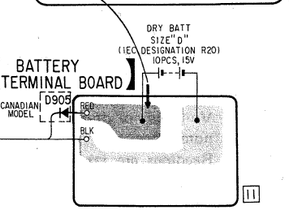
【JACK BOARD】



【POWER SW BOARD】



【BATTERY TERMINAL BOARD】

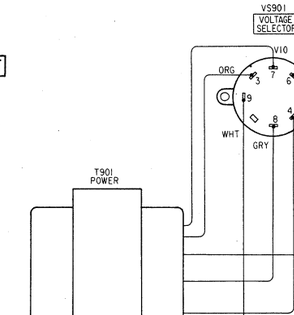


T901 POWER

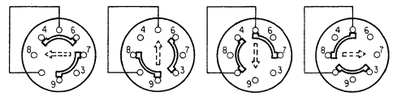
CN901 DC IN 12V

AC IN

VS901 VOLTAGE SELECTOR

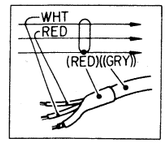


SELECTOR POSITION



Note:

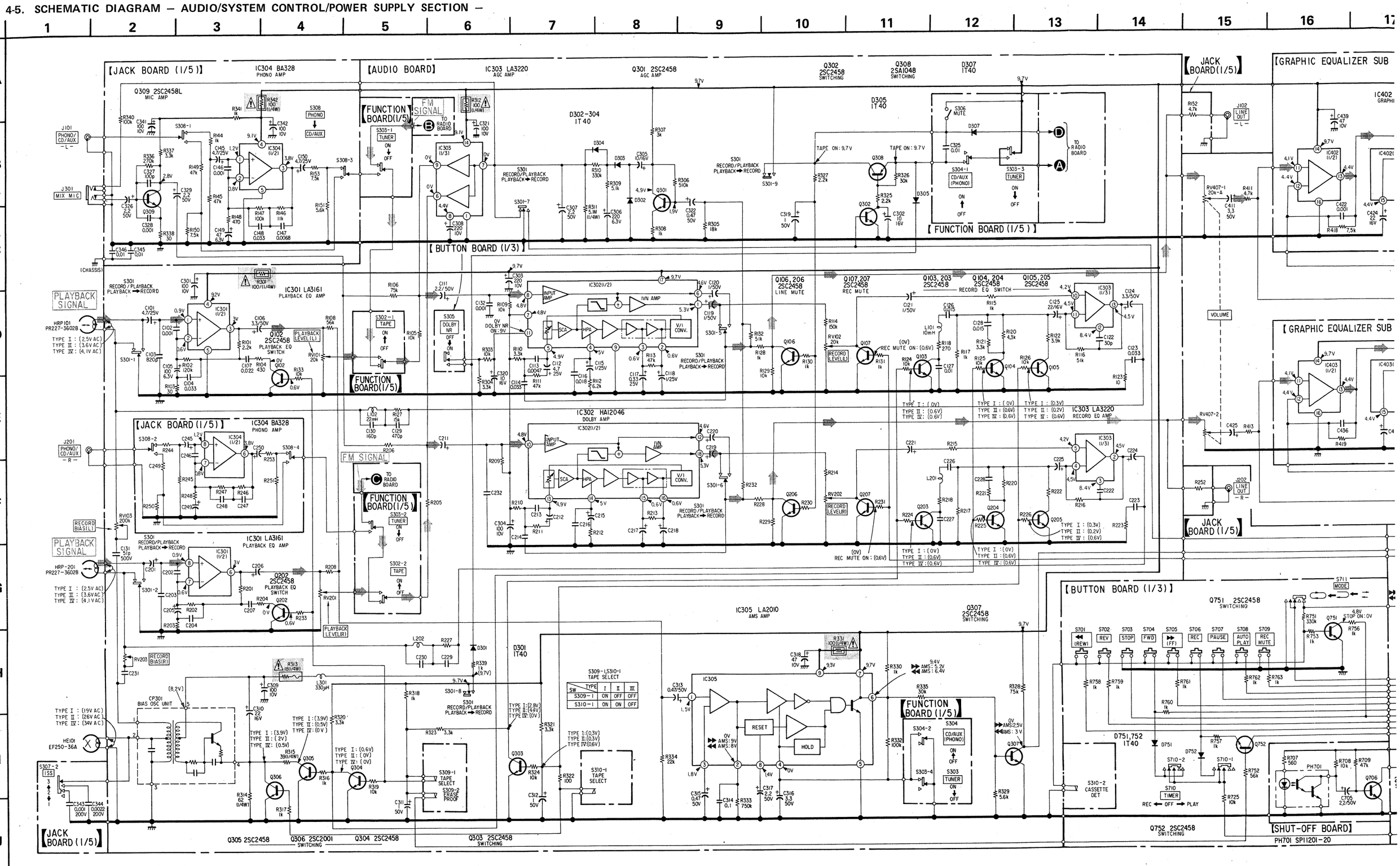
- Color code of sleeving over the end of the jacket.



- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ▒▒ : B + pattern
- ——→—— : signal path
- ——→ : L-CH signal path
- ⋯→ : R-CH signal path

*TOTAL CURRENT
RADIO:260mA
FWD/REV:310mA
FF:320mA
REW:370mA
REC:380mA
STOP:210mA

4-5. SCHEMATIC DIAGRAM – AUDIO/SYSTEM CONTROL/POWER SUPPLY SECTION –



11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27

【FUNCTION BOARD (1/5)】

【JACK BOARD (1/5)】

【GRAPHIC EQUALIZER SUB BOAD (1/2)】

【GRAPHIC EQUALIZER BOARD】

【POWER AMP BOARD】

【BUTTON BOARD (1/3)】

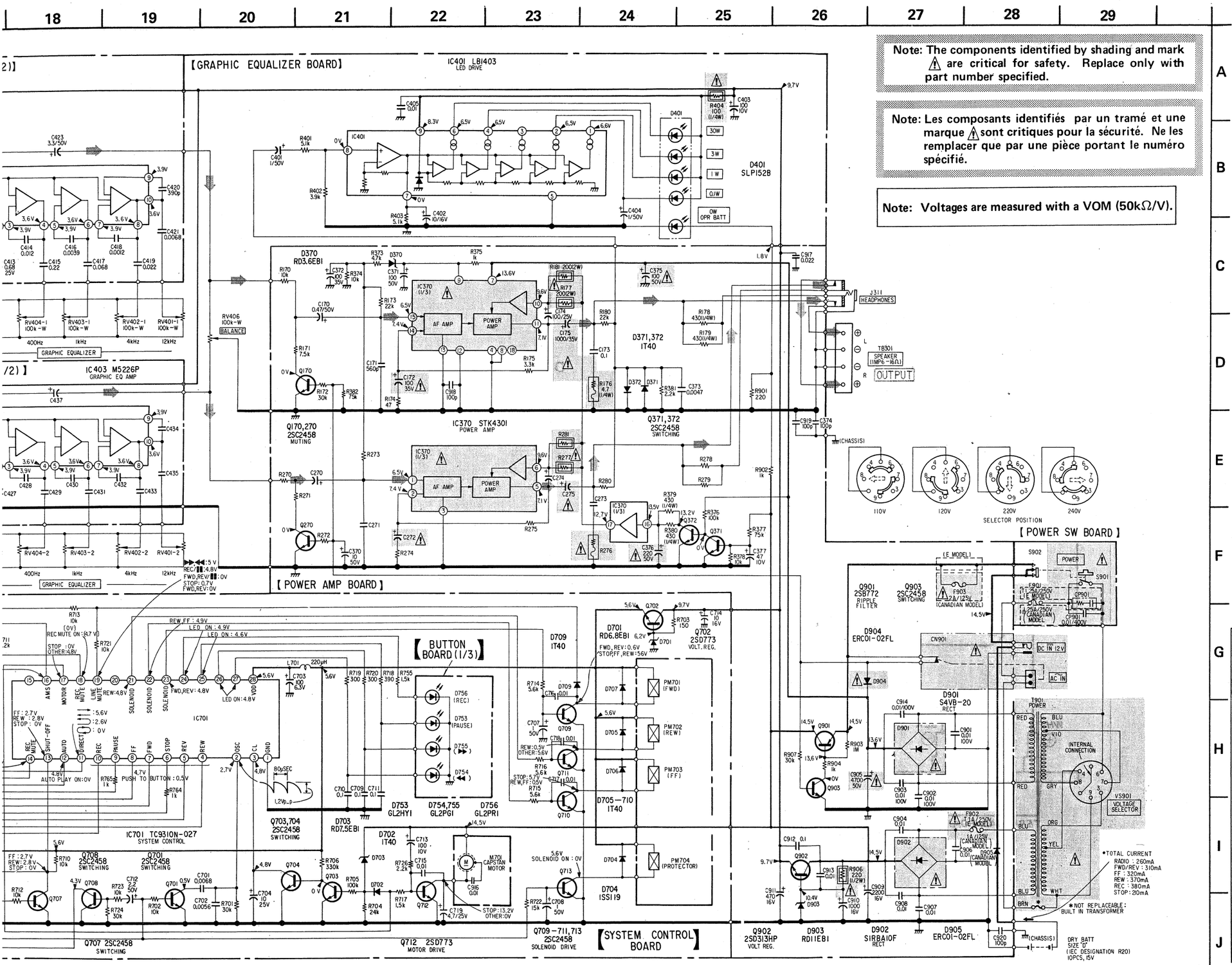
【SHUT-OFF BOARD】

【SYSTEM CONTROL BOARD】

Note: The co
⚠ are
part n

Note: Les co
marqu
rempla
spécifi

Note: Voltag



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Voltages are measured with a VOM (50kΩ/V).

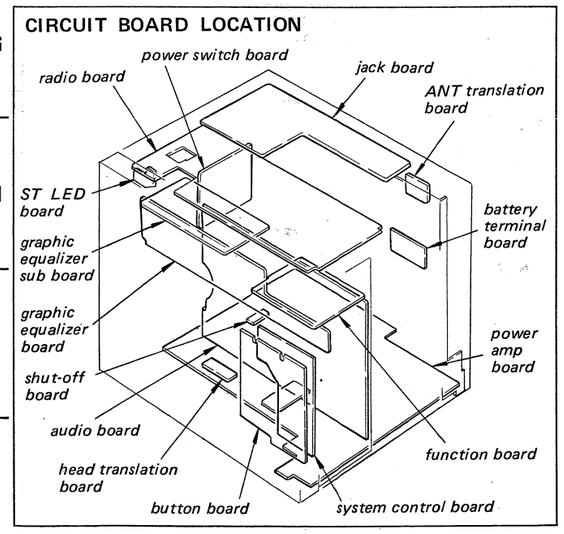
Note:

- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6 W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- ▭ : nonflammable resistor.
- ▭ : adjustment for repair.
- ▬ : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM.
  [ ] : record mode
- Switch

Ref. No.	Switch	Position
S301	record/playback	playback
S302	TAPE	OFF
S303	TUNER	ON
S304	CD/AUX	OFF
S305	DOBLY NR	OFF
S306	muting	OFF
S307-1	FM MODE	ST
S307-2	ISS	2
S308	PHONO/CD/AUX	PHONO
S309-1	tape select	OFF
S309-2	erase proof	OFF
S310-1	tape select	OFF
S310-2	cassette det	OFF
S701	REW	OFF
S702	REV	OFF
S803	STOP	OFF
S704	FWD	OFF
S705	FF	OFF
S706	REC	OFF
S707	PAUSE	OFF
S708	AUTO PLAY	OFF
S709	REC MUTE	OFF
S710	TIMER	OFF
S711	MODE	⇌
S901 S902	POWER	OFF

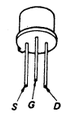
- ⇨ : signal path.

CIRCUIT BOARD LOCATION



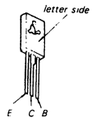
- **Semiconductor Lead Layouts**

2SA1048
2SC2458
2SC2724-C
2SC2786-L
2SC2839
2SC2840-DL



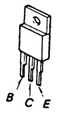
2SA1175

2SB772



2SC2001
2SD788

2SD313HP

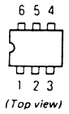


2SD773

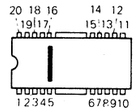
2SK193

BA328
LA2010
LA3161
LB1403N

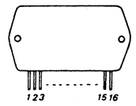
HA12046
LA1260S
LA3220
LA3361
TC9310N-027



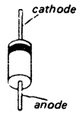
M5226P



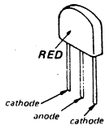
STK4301



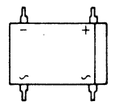
1S2687S-1
1SS119
RD3.6EB1
RD5.6EB1
RD6.8EB1
RD7.5EB1
RD11EB1T
30D4



GL2HY1
GL2PG1
GL2PR1

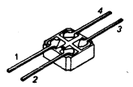


GL9NG10
GL9PR10

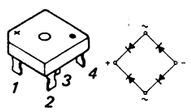


S1RBA10

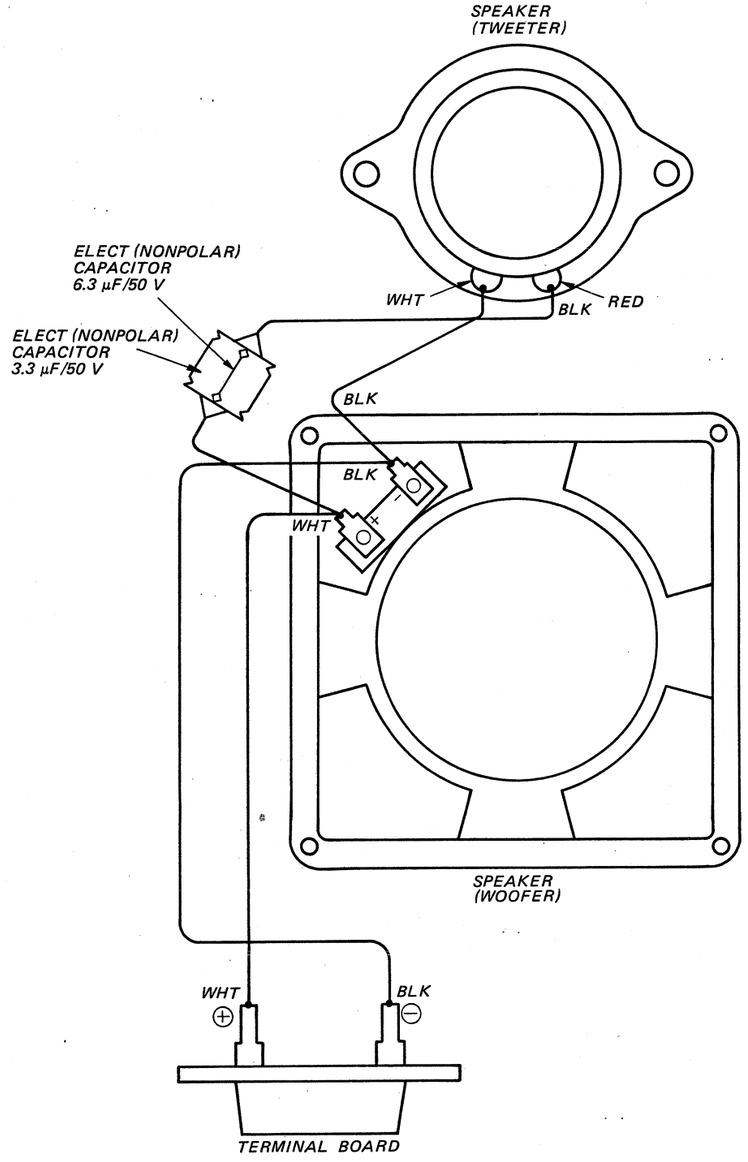
SLP152B-50



S4VB40



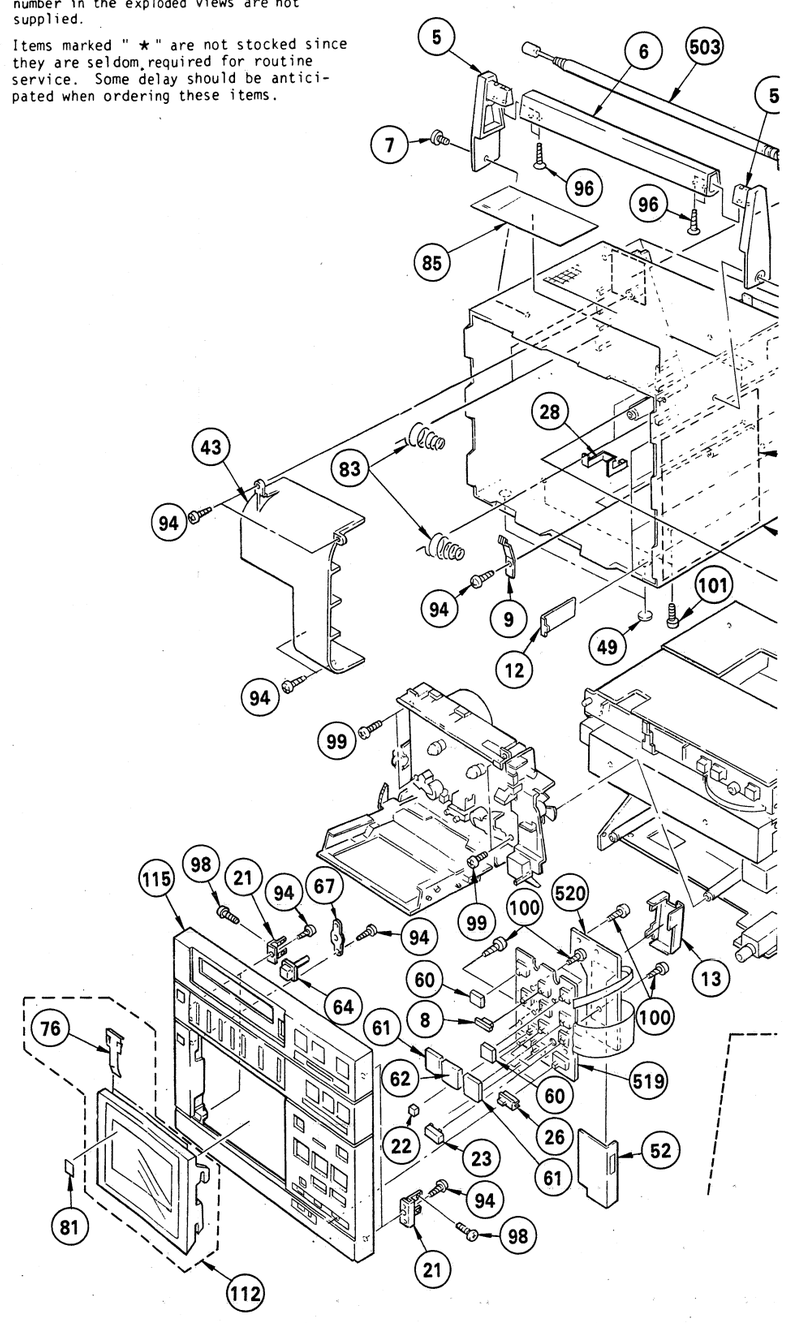
4-6. SPEAKER WIRING



SECTION 5
EXPLODED VIEWS AND PARTS LIST

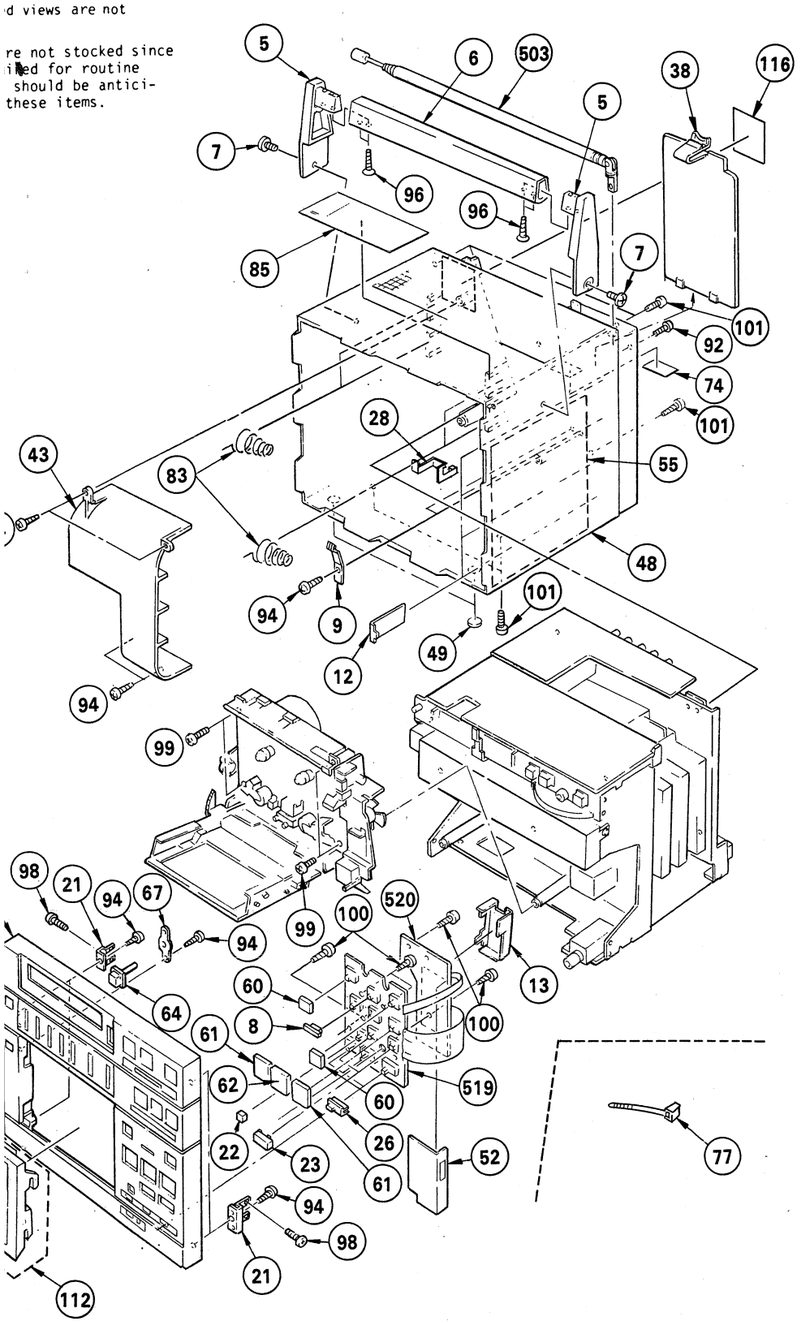
(1)

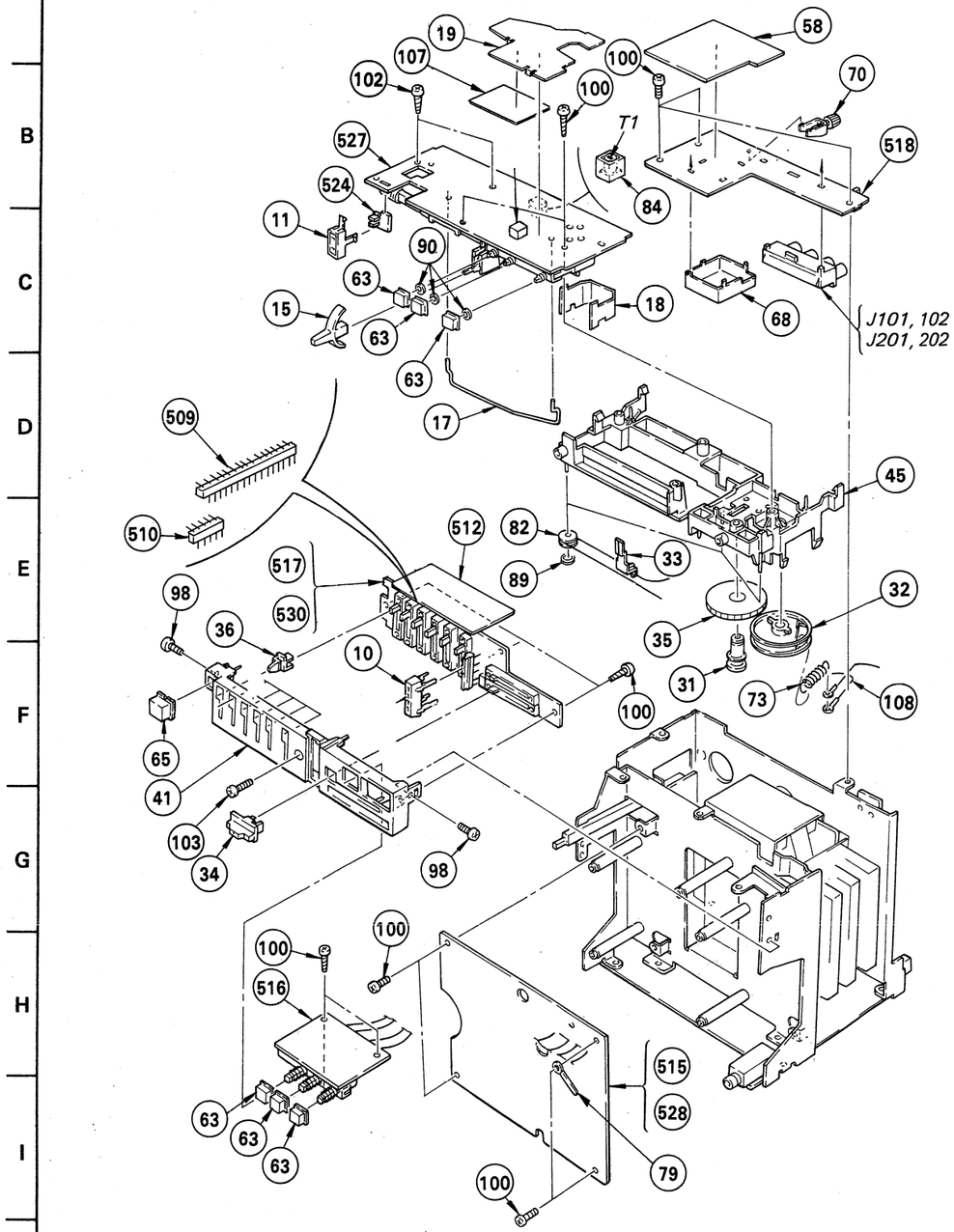
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

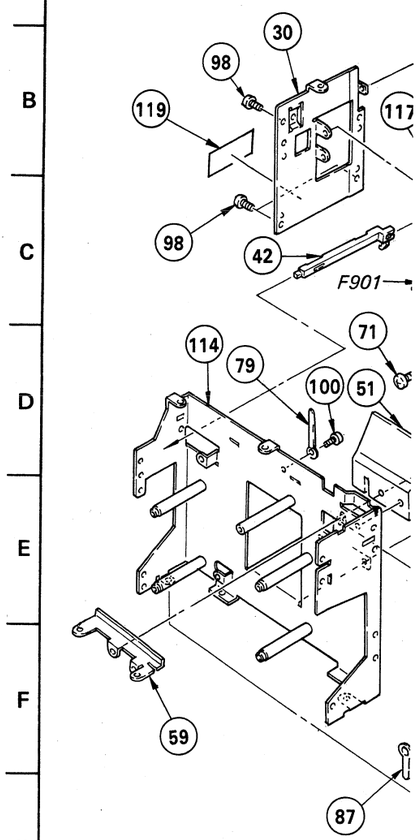


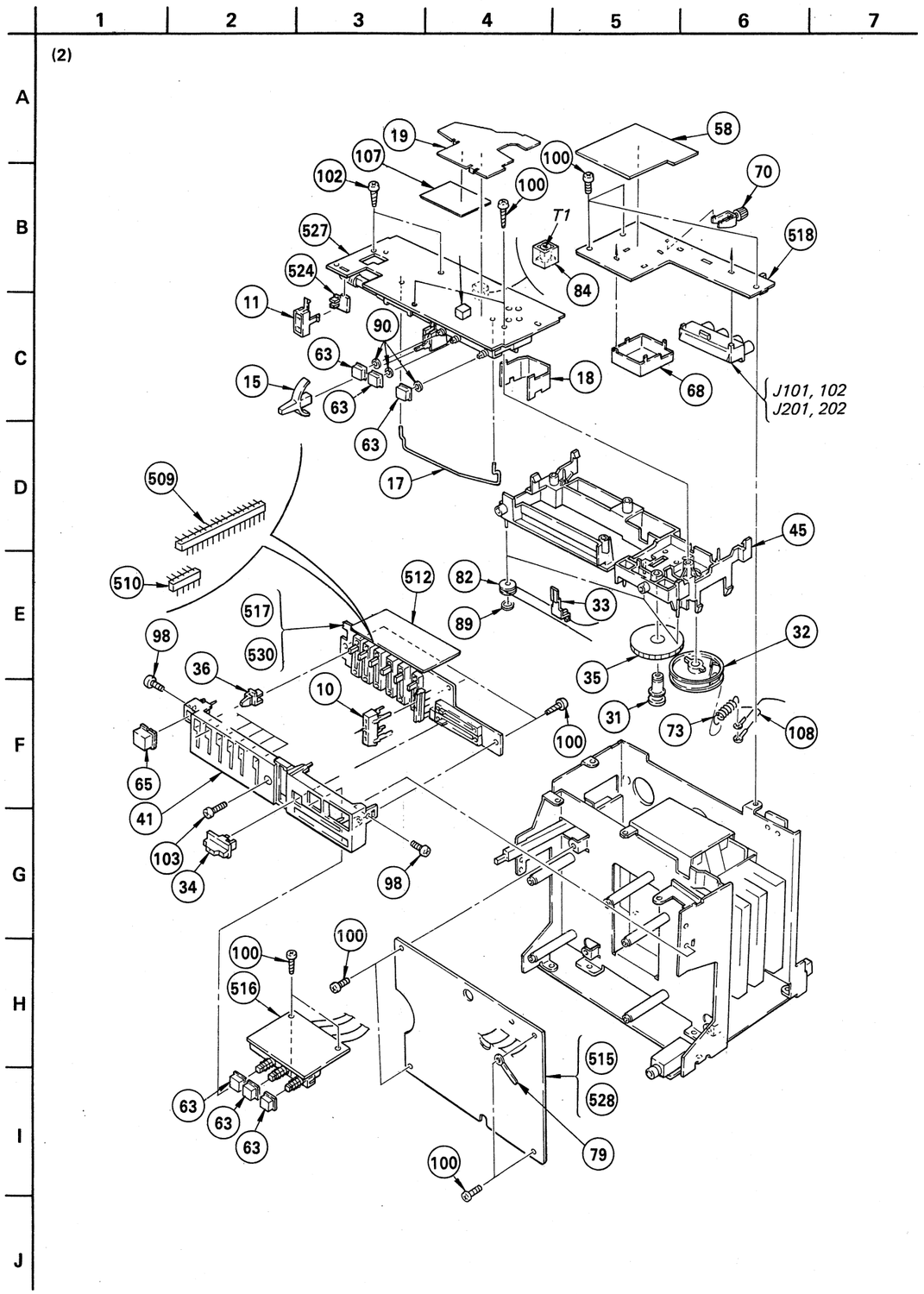
with no reference
d views are not

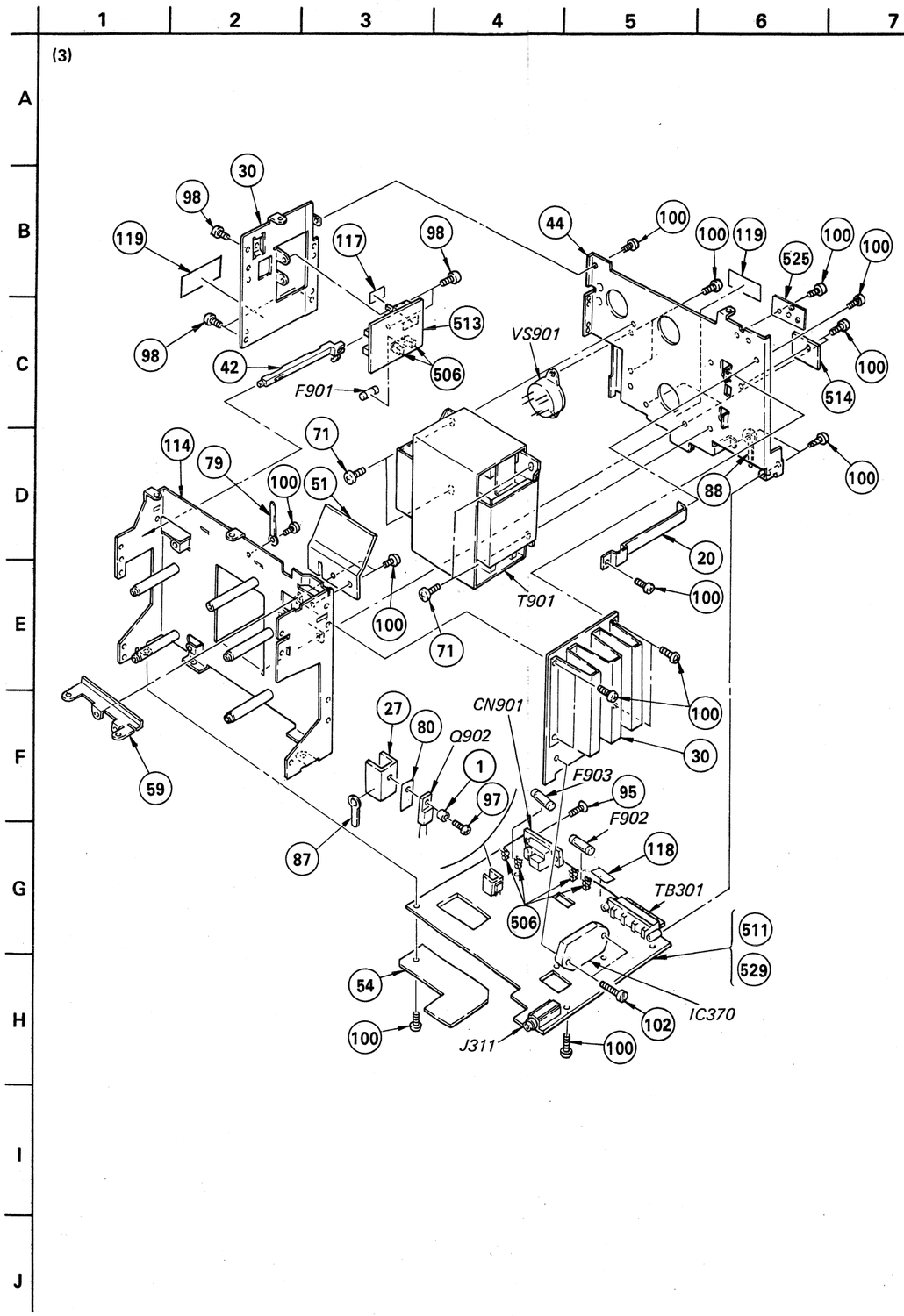
re not stocked since
ired for routine
should be antici-
these items.

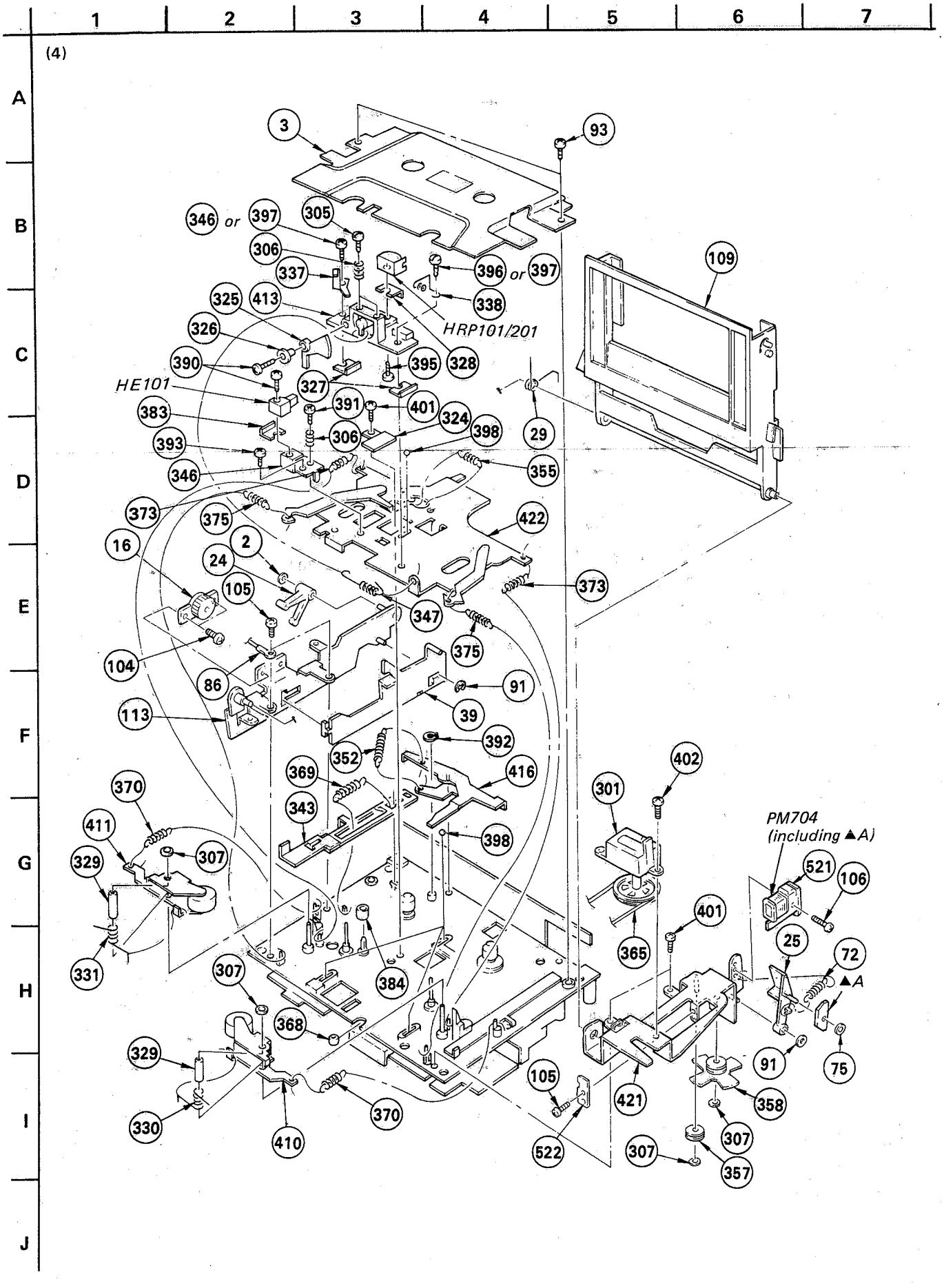


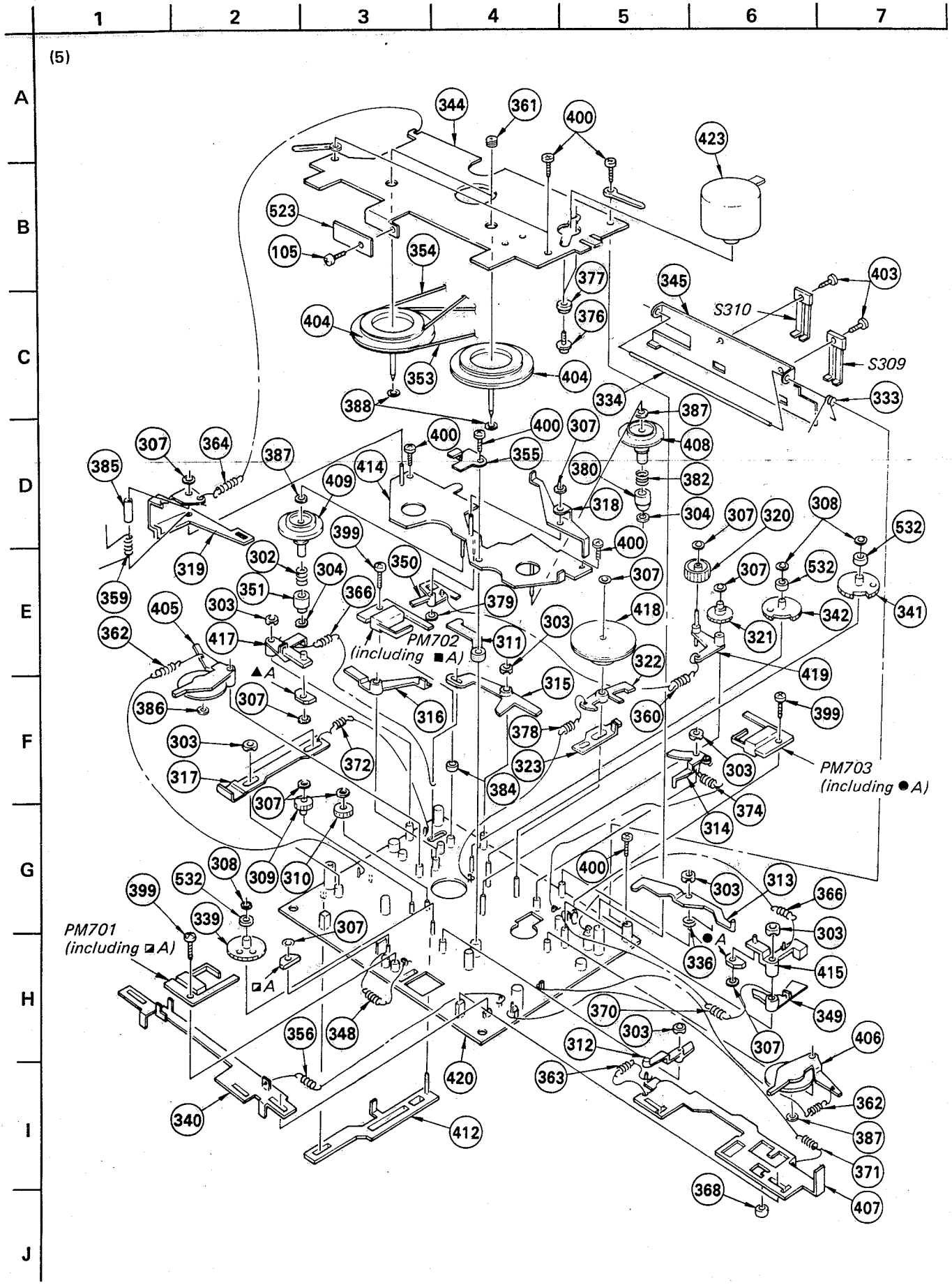


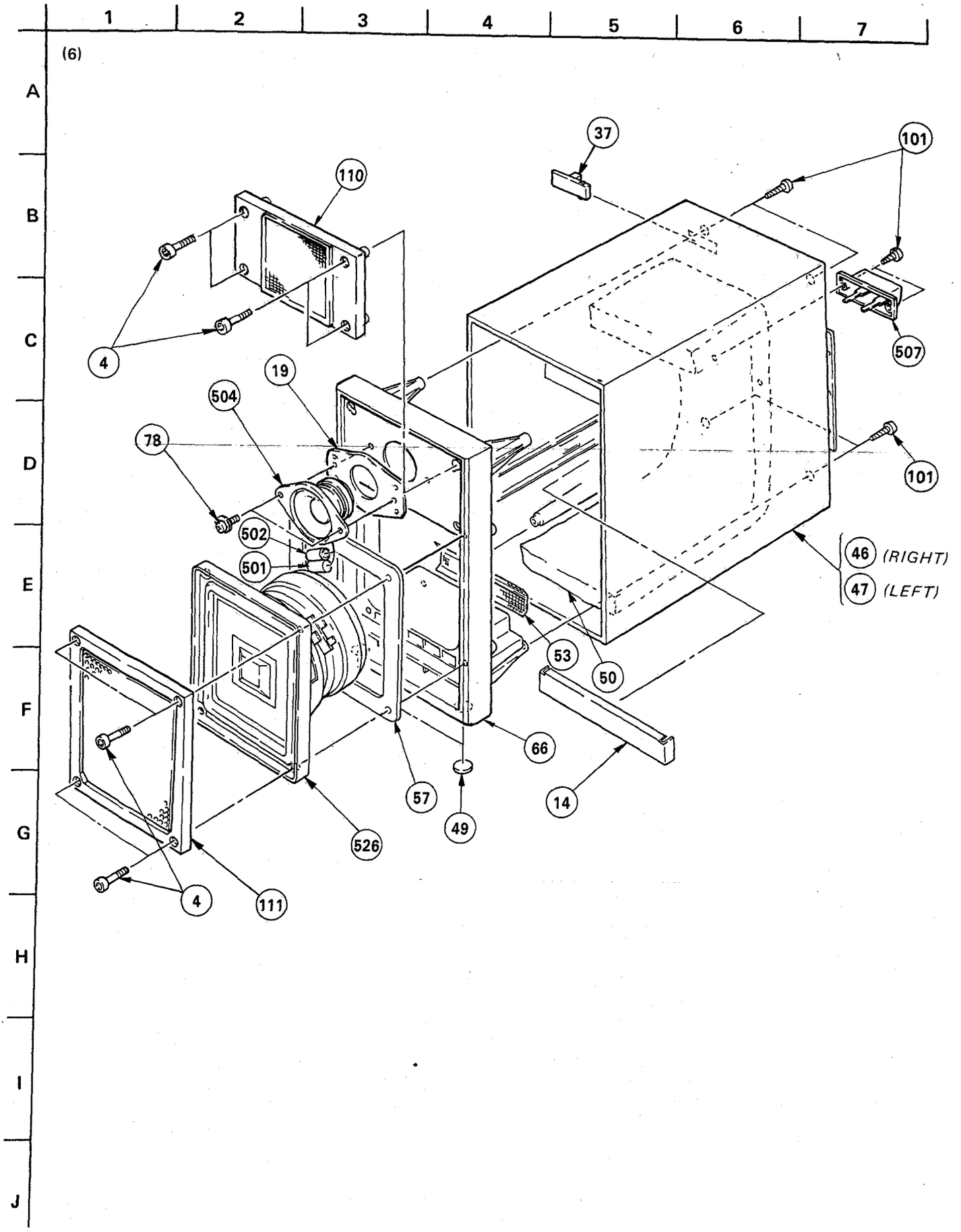



(2)
1 2 3 4 5 6 7
A B C D E F G H I J
19
107
102
100
100
58
70
T1
84
518
527
524
11
90
63
15
63
63
18
68
J101, 102
J201, 202
17
509
510
512
82
89
33
45
517
530
98
36
10
35
32
31
73
108
100
65
41
103
34
98
100
516
100
63
63
63
515
528
79
100


(3)
1 2 3 4 5 6 7
A B C D E F G H I J
30
98
119
98
117
98
44
100
100
119
525
100
100
98
42
513
506
F901
VS901
514
100
71
114
79
100
51
88
100
20
100
T901
100
71
CN901
27
80
Q902
1
97
F903
95
F902
118
TB301
506
511
529
87
54
100
J311
102
IC370
100
59
100


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
(4)
3
93
346 or 397
305
306
337
396 or 397
109
325
413
338
HRP101/201
326
328
390
395
HE101
327
391
401
324
383
306
398
29
393
355
346
373
375
422
16
2
24
105
373
347
104
375
86
91
113
39
392
352
369
416
402
370
343
301
411
398
PM704
(including ▲A)
329
307
521
106
401
331
365
25
72
▲A
307
384
368
91
75
329
105
421
358
330
370
307
410
522
307
357


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
(5)
PM702
(including ■A)
PM703
(including ●A)
PM701
(including ◪A)
S310
S309
▲A
◪A
●A


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
(6)
37
101
110
4
19
504
78
507
101
502
501
46 (RIGHT)
47 (LEFT)
53
50
66
57
49
14
526
4
111

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

GENERAL SECTION

No.	Part No.	Description
1	2-832-007-00	BUSHING (K), INSULATING
2	3-314-549-00	WASHER (E-2.3), NYLON
3	*3-319-201-01	COVER, MD
4	3-319-204-01	SCREW (A), ORNAMENTAL
5	3-319-205-01	PLATE, SIDE, HANDLE
6	3-319-206-01	HANDLE
7	3-319-207-01	SCREW, ORNAMENTAL, HANDLE
8	3-319-209-11	BUTTON, AUTO PLAY
9	3-319-211-01	SPRING
10	3-319-212-01	HOLDER, METER
11	3-319-213-01	HOLDER, LED
12	3-319-215-01	TERMINAL BOARD
13	*3-319-216-01	PLATE, SHIELD, SYSTEM CONTROL
14	*3-319-221-01	REINFORCEMENT
15	3-319-222-01	KNOB, LEVER
16	3-319-224-01	DAMPER, SMALL
17	*3-319-225-01	WIRE, CONDUCTOR
18	*3-319-226-01	PLATE (A), SHIELD, TUNER
19	*3-319-227-01	PLATE (B), SHIELD, TUNER
20	*3-319-230-01	BRACKET (A), REAR CABINET
21	*3-319-233-01	BRACKET, CABINET
22	3-319-235-21	BUTTON, RM
23	3-319-236-21	BUTTON, PAUSE
24	3-319-240-01	LEVER, CONVERSION
25	3-319-242-01	LEVER, PROTECTION
26	3-319-243-01	KNOB, SLIDE
27	*3-319-244-01	HEAT SINK, REGULATOR
28	*3-319-245-01	TERMINAL BOARD, ANTENNA
29	3-319-246-01	SPRING
30	*3-319-247-01	BRACKET, SIDE
31	3-319-253-01	SHAFT, TUNING
32	3-319-256-01	DRUM, DIAL
33	3-319-260-01	POINTER
34	3-319-262-01	KNOB, CONTROL
35	3-319-264-01	KNOB, TUNING
36	3-319-265-01	KNOB, EQUALIZER
37	3-319-266-01	CLAW, SPK LOCK
38	3-319-268-01	LID, BATTERY CASE
39	3-319-271-01	LEVER, EJECT
40	*3-319-272-01	HEAT SINK, POWER
41	*3-319-274-01	CHASSIS, EQUALIZER
42	3-319-275-01	LEVER, POWER
43	3-319-276-01	CASE, BATTERY
44	*3-319-278-01	CHASSIS, REAR
45	3-319-280-01	CHASSIS, TUNER

GENERAL SECTION

No.	Part No.	Description
46	3-319-281-81	BOX, SPEAKER (RIGHT)
47	3-319-281-91	BOX, SPEAKER (LEFT)
48	3-319-283-71	CABINET (MAIN)
49	3-319-288-01	FOOT
50	*3-319-289-01	ABSORBENT, ACOUSTIC
51	*3-319-290-01	PLATE, HEAT INSULATING, TU
52	*3-319-292-01	PLATE (REAR), SHIELD, SC
53	3-319-294-01	NET, DUCT
54	*3-319-806-01	PLATE (E), SHIELD
55	3-319-808-01	LABEL, ARRANGEMENT
56	.....	
57	3-319-833-01	CUSHION, WOOFER
58	*3-319-818-01	PLATE, SHIELD, JACK
59	*3-319-834-01	BRACKET, FUNCTION
60	3-325-801-01	BUTTON, FR
61	3-325-803-01	BUTTON, FWD. REV
62	3-325-804-01	BUTTON, STOP
63	3-325-805-01	BUTTON, FUNCTION
64	3-325-806-01	BUTTON, EJECT
65	3-325-807-01	BUTTON, POWER
66	3-325-814-01	BOARD, BAFFLE, SPEAKER
67	*3-325-815-01	GUIDE, BUTTON
68	*3-325-816-01	PLATE (A), SHIELD
69	3-325-817-01	CUSHION, TWEETER
70	*3-325-819-01	TERMINAL BOARD, GROUND
71	3-325-824-01	SCREW (M4X7)
72	3-474-055-XX	SPRING, TENSION
73	3-515-170-00	SPRING, TENSION
74	3-527-213-00	LABEL, SERIAL NUMBER
75	3-558-708-01	WASHER, STOPPER
76	3-571-315-00	SPRING
77	3-671-893-00	CLAMP (LOW TYPE)
78	3-703-136-00	SCREW, TAPPING
79	3-703-150-11	CLAMP
80	3-703-207-00	INSULATOR, TO-220
81	3-703-707-01	STICKER, SONY SYMBOL (21)
82	3-817-114-00	PULLEY P8
83	3-837-653-XX	SPRING
84	*3-887-524-00	PLATE, SHIELD
85	4-884-927-00	LABEL (SYSTEM), CAUTION
86	7-623-507-01	LUG, 2.6
87	7-623-508-01	LUG, 3
88	7-623-510-01	LUG, 4
89	7-623-924-01	WASHER 3.0, NYLONE
90	7-623-955-01	WASHER 4.0, FIBER

GENERAL SECTION

No.	Part No.	Description
91	7-624-105-04	STOP RING 2.3, TYPE -E
92	7-682-149-09	SCREW +P 3X10
93	7-685-104-14	SCREW +P 2X6 TYPE2 NON-SLIT
94	7-685-146-14	SCREW +P 3X8 TYPE2 SLIT
95	7-685-247-29	SCREW +KTP 3X10 TYPE2 SLIT
96	7-685-346-29	SCREW +RKTP 3X8 TYPE2 SLIT
97	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S
98	7-685-544-19	SCREW +BTP 3X5 TYPE2 N-S
99	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3
100	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3
101	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3
102	7-685-650-11	SCREW +BVTP 3X16 TYPE2 N-S
103	7-685-752-01	SCREW +PTT 3X8 (S)
104	7-685-781-04	SCREW +BVTT 2X4 (S)
105	7-685-791-04	SCREW +BVTT 2.6X5 (S)
106	7-685-854-01	SCREW +BVTT 2X8 (S)
107	9-911-815-02	CUSHION
108	9-911-825-42	STRING, 0.5MM WHITE
109	A-3235-415-A	HOLDER ASSY, CASSETTE
110	A-3239-356-A	ESCUTCHEON ASSY, TWEETER
111	A-3239-357-A	ESCUTCHEON ASSY, WOOFER
112	A-3247-143-A	LID ASSY, CASSETTE
113	*X-3319-201-1	GUIDE ASSY, EJECT
114	*X-3319-203-1	CHASSIS ASSY, CENTER
115	X-3325-801-1	PANEL ASSY, FRONT
116	*3-319-815-11	(Canadian)...LABEL, MODEL NUMBER (CND)
117	*3-701-946-11	(Canadian)...LABEL, FUSE
118	*3-701-946-30	(Canadian)...LABEL, FUSE
119	*3-703-044-26	(Canadian)...LABEL, CAUTION

ACCESSORY & PACKING MATERIAL

Part No.	Description
⚠1-526-565-00	(E2)...AC PLUG ADAPTOR
⚠1-551-235-00	(E2)...CORD, POWER (DK-51) 2P
⚠1-551-521-00	(E3)...CORD, POWER (DK-52) 2P
⚠1-557-287-11	(Canadian)...CORD, POWER
1-557-977-11	CORD, SP CONNECTION
3-325-820-01	INDIVIDUAL CARTON
3-325-821-01	CUSHION (UPPER)
3-325-822-01	CUSHION (LEFT)
3-325-823-01	CUSHION (RIGHT)
3-532-616-00	BAG, POLYETHELENE
3-881-644-00	BAG, PROTECTION
3-760-496-11	MANUAL, INSTRUCTION
3-795-308-51	(E2)....INSTRUCTION

MECHANISM SECTION

No.	Part No.	Description
301	1-548-564-51	COUNTER, TAPE (SMALL TYPE)
302	3-306-302-00	SPRING, COMPRESSION
303	3-307-390-00	BUSHING, LOADING SPRING
304	3-307-394-00	RETAINER (B), THRUST
305	3-307-448-00	SCREW, ADJUSTMENT, AZIMUTH
306	3-307-460-00	SPRING, COMPRESSION
307	3-307-948-01	WASHER, NYLON
308	3-307-948-11	WASHER, NYLON
309	3-313-708-00	GEAR, DECELERATION
310	3-313-709-00	GEAR, REVERSE
311	3-313-710-00	LEVER, FWD
312	3-313-713-00	LEVER, NR
313	3-313-716-00	LEVER, FF
314	3-313-718-00	LEVER, REC TRIGGER
315	3-313-720-00	LEVER, REW
316	3-313-723-00	LEVER, NR TRIGGER
317	*3-313-724-00	SLIDER, NR TRIGGER
318	3-313-733-00	LEVER (A), REC
319	3-313-734-00	LEVER (B), REC
320	3-313-744-00	GEAR, FR
321	3-313-745-00	GEAR, REW
322	3-313-746-00	LEVER, AMS LOCK
323	*3-313-747-00	SLIDER, GEAR RELEASE
324	3-313-749-00	SPRING, LEAF
325	3-313-755-00	GEAR, FAN MOLD
326	3-313-756-00	COLLAR (G)
327	3-313-757-01	SEAM (F), HEAD
327	3-313-757-11	SEAM (F), HEAD
327	3-313-757-21	SEAM (F), HEAD
328	3-313-758-01	SEAM (M), HEAD
328	3-313-758-11	SEAM (M), HEAD
328	3-313-758-21	SEAM (M), HEAD
329	3-313-759-01	COLLAR (P)
330	3-313-762-01	SPRING (N)
330	3-313-762-11	SPRING (N)
330	3-313-762-21	SPRING (N)
331	3-313-763-11	SPRING (R)
332	.....	
333	3-313-784-00	SPRING
334	*3-313-785-00	SHAFT, DETECTION LEVER
335	*3-313-786-00	RETAINER, SLIDER
336	3-313-787-00	SPRING
337	*3-313-790-00	CLAMP
338	3-313-791-00	CLAMP
339	3-313-792-00	GEAR, FWD CAM

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MECHANISM SECTION

No.	Part No.	Description
340	*3-313-794-00	SLIDER (B), NR
341	3-313-795-00	GEAR, FF CAM
342	3-313-796-00	GEAR, REW CAM
343	3-313-798-00	SLIDER (R), PAUSE
344	*3-313-800-00	RETAINER, THRUST
345	*3-313-803-00	LEVER, DETECTION
346	3-313-806-00	BRACKET, E HEAD
347	3-313-807-00	SPRING (POWER TENSION), TENSION
348	3-313-808-00	SPRING, TENSION
349	3-313-811-00	BRAKE (S)
350	3-313-812-00	BRAKE (T)
351	3-313-814-00	CLAW (T), REEL
352	3-313-815-00	SPRING, TENSION
353	3-313-816-00	BELT, SQUARE (71X1.3)
354	3-313-823-00	BELT, SQUARE (55.6X1.3)
355	3-313-824-00	SPRING, TENSION
356	3-313-849-00	SPRING, TENSION
357	3-313-836-01	PULLEY (A)
358	3-313-837-01	PULLEY (B)
359	3-313-847-01	SPRING
360	3-472-222-XX	SPRING, TENSION
361	3-489-073-00	SCREW, THRUST
362	3-507-111-00	SPRING, TENSION
363	3-515-167-00	SPRING, TENSION
364	3-533-223-00	SPRING, TENSION
365	3-533-547-XX	BELT, SQUARE
366	3-534-558-00	SPRING, TENSION
367	3-535-625-00	WASHER, HANDLE
368	3-538-051-00	RUBBER, BRAKE
369	3-539-234-00	SPRING, TENSION
370	3-542-475-00	SPRING, TENSION
371	3-542-481-00	SPRING, TENSION
372	3-545-542-00	SPRING, TENSION
373	3-319-811-01	SPRING, TENSION
374	3-547-668-00	SPRING, TENSION
375	3-313-850-00	SPRING, TENSION
376	3-570-027-00	SCREW, MOTOR
377	3-570-118-00	CUSHION, MOTOR
378	3-570-552-00	SPRING, TENSION
379	3-570-615-00	POLY-WASHER (DIA.1.2)
380	3-571-844-00	CRAW, REEL
381	3-571-850-00	SPRING, COMPRESSION
382	3-571-850-11	SPRING, COMPRESSION
383	3-573-466-01	SPACER, HEAD (t=0.1)
383	3-573-466-11	SPACER, HEAD (t=0.2)

MECHANISM SECTION

No.	Part No.	Description
384	3-652-612-21	CUSHION (B)
385	3-657-841-81	SPACER (2X10)
386	3-701-437-01	WASHER
387	.....	
388	3-701-438-11	WASHER, 2.5
389	3-831-441-11	SPACER
390	7-621-255-55	SCREW +P 2X8
391	7-621-772-20	SCREW +B 2X5
392	7-624-193-08	STOP RING 3, GRIP
393	7-627-553-17	SCREW +P 2X2
394	7-627-553-28	SCREW, PRECISION +P 2X2.5
395	7-627-554-58	SCREW +P 2X2.8
396	7-627-556-48	SCREW +P 2.6X4.5
397	7-628-254-05	SCREW +PS 2.6X5
398	7-671-111-11	STEEL, BALL 1.5MM
399	7-685-105-14	TPG +P 2X8, TYPE 2, NON-SLIT
400	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3
401	7-685-790-04	SCREW +BVTT 2.6X4 (S)
402	7-685-852-01	SCREW +BVTT 2X5 (S)
403	7-685-853-01	SCREW +BVTT 2X6 (S)
404	X-3313-703-0	FLYWHEEL ASSY
405	X-3313-705-0	LEVER (N) ASSY, IDLER
406	X-3313-706-0	LEVER (R) ASSY, IDLER
407	X-3313-707-0	SLIDER (A) ASSY, NR
408	X-3313-708-0	TABLE ASSY, REEL, SUPPLY
409	X-3313-709-0	TABLE ASSY, REEL, TAKE-UP
410	X-3313-710-0	PINCH LEVER (N) SUB ASSY
411	X-3313-711-0	PINCH LEVER (R) SUB ASSY
412	X-3313-712-0	SLIDER (N) ASSY, PAUSE
413	X-3313-714-0	BRACKET ASSY, HEAD
414	X-3313-716-0	CHASSIS SUB ASSY, SUB
415	X-3313-717-0	LEVER SUB ASSY, FF LOCK
416	X-3313-718-2	LEVER ASSY, PAUSE
417	X-3313-719-0	LEVER SUB ASSY, REW LOCK
418	X-3313-720-0	PULLEY ASSY, FR
419	X-3313-722-0	LEVER (B) ASSY, FR
420	*X-3313-724-0	CHASSIS ASSY, MECHANICAL
421	*X-3313-727-1	BRACKET ASSY, COUNTER
422	X-3313-728-1	BASE SUB ASSY, HEAD
423	X-3313-729-1	MOTOR SUB ASSY
424	X-3313-732-1	FLYWHEEL (N) ASSY
425	4-874-259-00	RUBBER, BRAKE

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	1-119-341-00	ELECT(NONPOLAR)6.8MF	20%	50V	
502	1-119-426-00	ELECT(NONPOLAR)3.3MF	20%	50V	
503	1-501-221-00	ANTENNA, TELESCOPIC			
504	1-503-481-11	SPEAKER (TWEETER)			
505	.....				
506	1-533-162-00	HOLDER, FUSE			
507	1-536-833-11	TERMINAL BOARD (SPEAKER)			
508	*1-561-557-00	CONTACT, RECEPTACLE			
509	*1-564-348-00	PLUG (L TYPE) 5P			
510	*1-564-350-00	PLUG (L TYPE) 15P			
511	*1-612-398-11	PC BOARD, POWER AMP			
512	*1-612-399-11	PC BOARD,GRAPHIC EQUALIZER SUB			
513	*1-612-400-11	PC BOARD, POWER SWITCH			
514	*1-612-401-11	PC BOARD, BATTERY TERMINAL			
515	*1-612-402-11	PC BOARD, AUDIO			
516	*1-612-403-11	PC BOARD, FUNCTION			
517	*1-612-404-11	PC BOARD, GRAPHIC EQUALIZER			
518	*1-612-405-11	PC BOARD, JACK			
519	*1-612-406-11	PC BOARD, BUTTON			
520	*1-612-407-11	PC BOARD, SYSTEM CONTROL			
521	*1-612-408-11	PC BOARD, EPM TRANSLATION			
522	*1-612-409-11	PC BOARD, SHUT-OFF			
523	*1-612-410-11	PC BOARD, HEAD TRANSLATION			
524	*1-615-660-11	PC BOARD, ST.LED			
525	*1-615-661-11	PC BOARD, ANT TRANSLATION			
526	8-927-222-00	070A011 (WOOFER)			
527	*A-3214-076-A	PC BOARD ASSY, RADIO			
528	*A-3215-557-A	PC BOARD ASSY, AUDIO			
529	*A-3215-729-A	(E).....PC BOARD ASSY, POWER AMPLIFIER			
529	*A-3215-852-A	(Canadian)....PC BOARD ASSY, POWER AMPLIFIER			
530	*A-3215-732-A	PC BOARD ASSY, GRAPHIC EQVALIZER			
531	*A-3289-159-A	MOUNTED PCB, SYSTEM CONTROL			
532	1-452-202-00	MAGNET			
C1	1-162-210-31	CERAMIC	30PF	5%	50V
C2	1-162-306-31	CERAMIC	0.01MF	30%	16V
C3	1-162-306-31	CERAMIC	0.01MF	30%	16V
C4	1-162-190-31	CERAMIC	1.8PF	20%	50V
C5	1-162-306-31	CERAMIC	0.01MF	30%	16V
C6	1-162-306-31	CERAMIC	0.01MF	30%	16V
C7	1-102-745-00	CERAMIC	7PF	0.5PF	50V
C8	1-102-516-00	CERAMIC	27PF	5%	50V
C9	1-101-997-00	CERAMIC	5PF	0.5PF	50V
C10	1-162-306-31	CERAMIC	0.01MF	30%	16V
C11	1-123-379-00	ELECT	0.47MF	20%	50V
C12	1-162-187-31	CERAMIC	1PF	20%	50V
C13	1-162-306-31	CERAMIC	0.01MF	30%	16V
C14	1-162-306-31	CERAMIC	0.01MF	30%	16V
C15	1-162-306-31	CERAMIC	0.01MF	30%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C16	1-162-306-31	CERAMIC	0.01MF	30%	16V
C17	1-162-306-31	CERAMIC	0.01MF	30%	16V
C18	1-101-004-00	CERAMIC	0.01MF		50V
C19	1-101-004-00	CERAMIC	0.01MF		50V
C20	1-102-965-00	CERAMIC	39PF	5%	50V
C21	1-123-661-00	ELECT	100MF	20%	6.3V
C22	1-101-004-00	CERAMIC	0.01MF		50V
C23	1-161-055-00	CERAMIC	0.022MF	10%	25V
C24	1-102-110-00	CERAMIC	220PF	10%	50V
C25	1-161-053-00	CERAMIC	0.015MF	10%	25V
C26	1-162-282-31	CERAMIC	100PF	10%	50V
C27	1-123-616-00	ELECT	4.7MF	20%	25V
C28	1-123-330-00	ELECT	22MF	20%	16V
C29	1-123-356-00	ELECT	10MF	20%	16V
C30	1-161-055-00	CERAMIC	0.022MF	10%	25V
C31	1-123-616-00	ELECT	4.7MF	20%	25V
C32	1-123-381-00	ELECT	2.2MF	20%	50V
C33	1-123-647-00	ELECT	47MF	20%	6.3V
C34	1-161-494-00	CERAMIC	0.022MF	30%	25V
C35	1-162-306-31	CERAMIC	0.01MF	30%	16V
C36	1-123-332-00	ELECT	47MF	20%	16V
C37	1-123-306-00	ELECT	47MF	20%	10V
C40	1-123-379-00	ELECT	0.47MF	20%	50V
C41	1-161-055-00	CERAMIC	0.022MF	10%	25V
C42	1-123-379-00	ELECT	0.47MF	20%	50V
C43	1-102-106-00	CERAMIC	100PF	10%	50V
C44	1-162-201-31	CERAMIC	12PF	5%	50V
C46	1-102-250-00	CERAMIC	8PF	0.5PF	50V
C48	1-123-356-00	ELECT	10MF	20%	16V
C49	1-162-306-31	CERAMIC	0.01MF	30%	16V
C50	1-101-081-00	CERAMIC	130PF	2%	50V
C51	1-102-973-00	CERAMIC	100PF	2%	50V
C52	1-102-973-00	CERAMIC	100PF	2%	50V
C53	1-102-973-00	CERAMIC	100PF	2%	50V
C54	1-161-974-00	CERAMIC	0.1MF	20%	16V
C55	1-123-381-00	ELECT	2.2MF	20%	50V
C56	1-161-059-00	CERAMIC	0.047MF	10%	25V
C57	1-161-059-00	CERAMIC	0.047MF	10%	25V
C58	1-123-612-00	ELECT	2.2MF	20%	50V
C59	1-123-332-00	ELECT	47MF	20%	16V
C60	1-123-380-00	ELECT	1MF	20%	50V
C61	1-123-380-00	ELECT	1MF	20%	50V
C62	1-123-379-00	ELECT	0.47MF	20%	50V
C63	1-123-379-00	ELECT	0.47MF	20%	50V
C64	1-161-938-00	CERAMIC	0.001MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C65	1-123-369-00	ELECT	4.7MF	20%	25V
C66	1-123-369-00	ELECT	4.7MF	20%	25V
C67	1-161-059-00	CERAMIC	0.047MF	10%	25V
C68	1-161-059-00	CERAMIC	0.047MF	10%	25V
C69	1-162-306-31	CERAMIC	0.01MF	30%	16V
C70	1-161-494-00	CERAMIC	0.022MF	30%	25V
C71	1-161-055-00	CERAMIC	0.022MF	10%	25V
C74	1-123-332-00	ELECT	47MF	20%	16V
C75	1-162-306-31	CERAMIC	0.01MF	30%	16V
C76	1-162-306-31	CERAMIC	0.01MF	30%	16V
C78	1-162-306-31	CERAMIC	0.01MF	30%	16V
C80	1-162-306-31	CERAMIC	0.01MF	30%	16V
C81	1-162-306-31	CERAMIC	0.01MF	30%	16V
C82	1-162-306-31	CERAMIC	0.01MF	30%	16V
C84	1-162-306-31	CERAMIC	0.01MF	30%	16V
C101	1-123-369-00	ELECT	4.7MF	20%	25V
C102	1-102-074-00	CERAMIC	0.001MF	10%	50V
C103	1-102-117-00	CERAMIC	820PF	10%	50V
C104	1-130-489-00	MYLAR	0.033MF	5%	50V
C105	1-123-307-00	ELECT	100MF	20%	6.3V
C106	1-123-382-00	ELECT	3.3MF	20%	50V
C107	1-130-487-00	MYLAR	0.022MF	5%	50V
C111	1-123-381-00	ELECT	2.2MF	20%	50V
C112	1-123-369-00	ELECT	4.7MF	20%	25V
C113	1-130-479-00	MYLAR	0.0047MF	5%	50V
C114	1-130-489-00	MYLAR	0.033MF	5%	50V
C115	1-131-408-00	ELECT(SOLID)	1MF	5%	25V
C116	1-130-486-00	MYLAR	0.018MF	5%	50V
C117	1-131-409-00	ELECT(SOLID)	0.33MF	5%	25V
C118	1-131-408-00	ELECT(SOLID)	1MF	5%	25V
C119	1-123-380-00	ELECT	1MF	20%	50V
C120	1-123-380-00	ELECT	1MF	20%	50V
C121	1-123-380-00	ELECT	1MF	20%	50V
C122	1-102-962-00	CERAMIC	30PF	5%	50V
C123	1-130-489-00	MYLAR	0.033MF	5%	50V
C124	1-123-382-00	ELECT	3.3MF	20%	50V
C125	1-123-330-00	ELECT	22MF	20%	16V
C126	1-130-485-00	MYLAR	0.015MF	5%	50V
C127	1-130-483-00	MYLAR	0.01MF	5%	50V
C128	1-130-485-00	MYLAR	0.015MF	5%	50V
C129	1-130-467-00	MYLAR	470PF	5%	50V
C130	1-101-367-00	CERAMIC	160PF	5%	50V
C131	1-107-164-00	MICA	51PF	5%	500V
C132	1-130-471-00	MYLAR	0.001MF	5%	50V
C145	1-123-328-00	ELECT	4.7MF	20%	25V
C146	1-102-074-00	CERAMIC	0.001MF	10%	50V
C147	1-130-481-00	MYLAR	0.0068MF	5%	50V
C148	1-130-489-00	MYLAR	0.033MF	5%	50V
C149	1-123-306-00	ELECT	47MF	20%	6.3V
C150	1-123-369-00	ELECT	4.7MF	20%	25V
C170	1-123-379-00	ELECT	0.47MF	20%	50V
C171	1-162-107-00	CERAMIC	560PF	10%	50V
C172 ⚠	1-123-345-00	ELECT	100MF	20%	35V
C173	1-130-495-00	MYLAR	0.1MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C174	1-123-333-00	ELECT	100MF	20%	25V
C175 ⚠	1-123-349-00	ELECT	1000MF	20%	35V
C301	1-123-307-00	ELECT	100MF	20%	10V
C302	1-123-356-00	ELECT	10MF	20%	16V
C303	1-123-308-00	ELECT	220MF	20%	10V
C304	1-123-307-00	ELECT	100MF	20%	10V
C305	1-123-356-00	ELECT	10MF	20%	16V
C306	1-123-308-00	ELECT	220MF	20%	6.3V
C307	1-123-381-00	ELECT	2.2MF	20%	50V
C308	1-123-308-00	ELECT	220MF	20%	10V
C309	1-123-307-00	ELECT	100MF	20%	10V
C310	1-123-330-00	ELECT	22MF	20%	16V
C311	1-123-380-00	ELECT	1MF	20%	50V
C312	1-123-380-00	ELECT	1MF	20%	50V
C313	1-123-379-00	ELECT	0.47MF	20%	50V
C314	1-130-495-00	MYLAR	0.1MF	5%	50V
C315	1-123-379-00	ELECT	0.47MF	20%	50V
C316	1-123-382-00	ELECT	3.3MF	20%	50V
C317	1-123-381-00	ELECT	2.2MF	20%	50V
C318	1-123-306-00	ELECT	47MF	20%	10V
C319	1-123-380-00	ELECT	1MF	20%	50V
C320	1-123-356-00	ELECT	10MF	20%	16V
C321	1-123-307-00	ELECT	100MF	20%	10V
C322	1-123-379-00	ELECT	0.47MF	20%	50V
C325	1-161-013-00	CERAMIC	0.01MF	10%	25V
C326	1-123-381-00	ELECT	2.2MF	20%	50V
C327	1-162-037-00	CERAMIC	100PF	5%	50V
C328	1-162-110-00	CERAMIC	0.001MF	10%	50V
C329	1-123-381-00	ELECT	2.2MF	20%	50V
C341	1-123-307-00	ELECT	100MF	20%	10V
C342	1-123-307-00	ELECT	100MF	20%	10V
C343	1-106-343-00	MYLAR	0.001MF	5%	200V
C344	1-106-351-00	MYLAR	0.0022MF	5%	200V
C345	1-162-113-00	CERAMIC	0.01MF	30%	16V
C346	1-162-113-00	CERAMIC	0.01MF	30%	16V
C370	1-123-356-00	ELECT	10MF	20%	50V
C371	1-123-360-00	ELECT	100MF	20%	50V
C372	1-123-345-00	ELECT	100MF	20%	35V
C373	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C374	1-162-037-00	CERAMIC	100PF	5%	50V
C375 ⚠	1-123-360-00	ELECT	100MF	20%	50V
C376 ⚠	1-123-361-00	ELECT	220MF	20%	50V
C377	1-123-306-00	ELECT	47MF	20%	10V
C401	1-123-380-00	ELECT	1MF	20%	50V
C402	1-123-356-00	ELECT	10MF	20%	16V
C403	1-123-307-00	ELECT	100MF	20%	10V
C404	1-123-380-00	ELECT	1MF	20%	50V
C405	1-162-306-31	CERAMIC	0.01MF	30%	16V
C411	1-123-382-00	ELECT	3.3MF	20%	50V
C412	1-161-058-00	CERAMIC	0.039MF	10%	25V
C413	1-131-407-00	ELECT(SOLID)	0.68MF	10%	25V
C414	1-161-052-00	CERAMIC	0.012MF	10%	25V
C415	1-136-169-00	FILM	0.22MF	5%	50V
C416	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C417	1-130-493-00	MYLAR	0.068MF	5%	50V
C418	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C419	1-161-055-00	CERAMIC	0.022MF	10%	25V

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C420	1-162-105-00	CERAMIC	390PF	10%	50V
C421	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C422	1-102-074-00	CERAMIC	0.001MF	10%	50V
C423	1-123-382-00	ELECT	3.3MF	20%	50V
C424	1-123-330-00	ELECT	22MF	20%	16V
C425	1-123-382-00	ELECT	3.3MF	20%	50V
C426	1-161-058-00	CERAMIC	0.039MF	10%	25V
C427	1-131-407-00	ELECT(SOLID)	0.68MF	10%	25V
C428	1-161-052-00	CERAMIC	0.012MF	10%	25V
C429	1-136-169-00	FILM	0.22MF	5%	50V
C430	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C431	1-130-493-00	MYLAR	0.068MF	5%	50V
C432	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C433	1-161-055-00	CERAMIC	0.022MF	10%	25V
C434	1-162-105-00	CERAMIC	390PF	10%	50V
C435	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C436	1-102-074-00	CERAMIC	0.001MF	10%	50V
C437	1-123-382-00	ELECT	3.3MF	20%	50V
C438	1-123-330-00	ELECT	22MF	20%	16V
C439	1-123-306-00	ELECT	47MF	20%	10V
C701	1-161-183-00	CERAMIC	0.0068MF	5%	25V
C702	1-130-480-00	MYLAR	0.0056MF	5%	50V
C703	1-123-307-00	ELECT	100MF	20%	6.3V
C704	1-123-356-00	ELECT	10MF	20%	25V
C705	1-123-381-00	ELECT	2.2MF	20%	50V
C706	1-123-381-00	ELECT	2.2MF	20%	50V
C707	1-123-380-00	ELECT	1MF	20%	50V
C708	1-123-380-00	ELECT	1MF	20%	50V
C709	1-161-974-00	CERAMIC	0.1MF	20%	16V
C710	1-161-974-00	CERAMIC	0.1MF	20%	16V
C711	1-161-974-00	CERAMIC	0.1MF	20%	16V
C712	1-123-381-00	ELECT	2.2MF	20%	50V
C713	1-123-307-00	ELECT	100MF	20%	10V
C714	1-123-356-00	ELECT	10MF	20%	16V
C715	1-161-013-00	CERAMIC	0.01MF	10%	25V
C716	1-161-013-00	CERAMIC	0.01MF	10%	25V
C717	1-161-013-00	CERAMIC	0.01MF	10%	25V
C718	1-161-013-00	CERAMIC	0.01MF	10%	25V
C719	1-123-369-00	ELECT	4.7MF	20%	25V
C901	1-106-196-00	MYLAR	0.01MF	10%	100V
C902	1-106-196-00	MYLAR	0.01MF	10%	100V
C903	1-106-196-00	MYLAR	0.01MF	10%	100V
C904	1-101-004-00	CERAMIC	0.01MF		50V
C905 ⚠	1-125-364-11	ELECT(BLOCK)	4700MF	20%	50V
C906	1-101-004-00	CERAMIC	0.01MF		50V
C907	1-101-004-00	CERAMIC	0.01MF		50V
C908	1-101-004-00	CERAMIC	0.01MF		50V
C909	1-123-325-00	ELECT	2200MF	20%	16V
C910	1-123-324-00	ELECT	1000MF	20%	16V
C911	1-123-323-00	ELECT	470MF	20%	16V
C912	1-161-974-00	CERAMIC	0.1MF	20%	16V
C913	1-101-004-00	CERAMIC	0.01MF		50V
C914	1-106-196-00	MYLAR	0.01MF	10%	100V
C916	1-161-013-00	CERAMIC	0.01MF	10%	25V
C917	1-161-494-00	CERAMIC	0.022MF	30%	25V
C918	1-102-106-00	CERAMIC	100PF	10%	50V
C919	1-162-037-00	CERAMIC	100PF	5%	50V
C920	1-162-037-00	CERAMIC	100PF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CF1	1-527-795-71	FILTER, CERAMIC
CF2	1-527-795-71	FILTER, CERAMIC
CF3	1-527-982-00	FILTER, CERAMIC
CN901 ⚠	1-526-780-11	(E).....INLET, AC DC (2P)
CN901 ⚠	1-526-900-00	(Canadian)..INLET, AC DC 2P
CNJ1	*1-560-461-00	PIN, CONNECTOR 5P
CNJ101	*1-560-459-00	PIN, CONNECTOR 3P
CNJ102	*1-560-459-00	PIN, CONNECTOR 3P
CNJ103	*1-560-459-00	PIN, CONNECTOR 3P
CNJ104	*1-560-455-00	PIN, CONNECTOR 2P
CNJ105	*1-560-455-00	PIN, CONNECTOR 2P
CNJ201	*1-560-469-00	PIN, CONNECTOR 6P
CNJ202	*1-560-456-00	PIN, CONNECTOR 2P
CNJ203	*1-560-456-00	PIN, CONNECTOR 2P
CNJ204	*1-560-591-00	PIN, CONNECTOR 7P
CNJ205	*1-560-468-00	PIN, CONNECTOR 5P
CNJ401	*1-560-455-00	PIN, CONNECTOR 2P
CNJ402	*1-560-462-00	PIN, CONNECTOR 6P
CNJ701	*1-560-466-00	PIN, CONNECTOR 3P
CNJ702	*1-560-470-00	PIN, CONNECTOR 8P
CNJ703	*1-560-456-00	PIN, CONNECTOR 2P
CNJ704	*1-560-467-00	PIN, CONNECTOR 4P
CNJ705	*1-560-466-00	PIN, CONNECTOR 3P
CNP1	*1-561-586-00	HOUSING, CONNECTOR 5P
CNP101	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP102	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP103	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP104	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP105	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP201	*1-561-587-00	HOUSING, CONNECTOR 6P
CNP202	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP203	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP204	*1-561-689-00	HOUSING, CONNECTOR 7P
CNP205	*1-561-586-00	HOUSING, CONNECTOR 5P
CNP401	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP402	*1-561-587-00	HOUSING, CONNECTOR 6P
CNP701	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP702	*1-561-588-00	HOUSING, CONNECTOR 8P
CNP703	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP704	*1-561-585-00	HOUSING, CONNECTOR 4P
CNP705	*1-561-584-00	HOUSING, CONNECTOR 3P
CP301	1-464-336-11	OSCILLATION UNIT, BIAS
CP901 ⚠	1-231-341-00	(E).....CR ENCAPSULATED COMPONENT
CP901 ⚠	1-161-744-00	(Canadian)...CAP, CERAMIC 0.01MF 400V
CT7	1-141-227-00	CAP, CERAMIC TRIMMER
CV1-4	1-151-466-11	CAP, TUNING, POLYETHYLENE
D1	8-719-911-19	DIODE 1SS119
D2	8-719-911-19	DIODE 1SS119
D3	8-719-911-19	DIODE 1SS119
D4	8-719-911-19	DIODE 1SS119
D5	8-719-100-34	DIODE RD5.6E-B1
D6	8-719-768-71	DIODE 1S2687S-1
D7	8-719-911-19	DIODE 1SS119
D8	8-719-907-34	DIODE GL-9NG10
D9	8-719-909-10	DIODE GL-9PR10

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
D10	8-719-911-19	DIODE 1SS119
D301	8-719-911-19	DIODE 1SS119
D302	8-719-911-19	DIODE 1SS119
D303	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D305	8-719-911-19	DIODE 1SS119
D307	8-719-911-19	DIODE 1SS119
D370	8-719-100-18	DIODE RD3.6EB1
D371	8-719-911-19	DIODE 1SS119
D372	8-719-911-19	DIODE 1SS119
D401	8-719-902-06	DIODE SLP152B-50
D701	8-719-100-40	DIODE RD6.8EB1
D702	8-719-911-19	DIODE 1SS119
D703	8-719-100-43	DIODE RD7.5EB1
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D751	8-719-911-19	DIODE 1SS119
D752	8-719-911-19	DIODE 1SS119
D753	8-719-900-21	DIODE GL-2HY1
D754	8-719-905-21	DIODE GL-2PG1
D755	8-719-905-21	DIODE GL-2PG1
D756	8-719-921-00	DIODE GL-2PR1
D901 ⚠	8-719-504-40	DIODE S4VB20
D902 ⚠	8-719-500-05	DIODE S1RBA10F
D903	8-719-100-60	DIODE RD11EB1
D904 ⚠	8-719-230-04	DIODE 30D4
D905	8-719-230-04	(Canadian)...DIODE 30D4
F901 ⚠	1-532-285-00	(E).....FUSE, TIME-LAG
F901 ⚠	1-532-726-11	(Canadian)...FUSE, GLASS TUBE
F902 ⚠	1-532-078-00	(E).....FUSE, TIME-LAG
F902 ⚠	1-532-536-00	(Canadian)...FUSE, GLASS TUBE
F903 ⚠	1-532-578-00	(Canadian)...FUSE, GLASS TUBE
FL1	1-235-222-00	FILTER, BANDPASS
FL2	1-235-221-00	FILTER, LOW PASS
HE101	8-825-559-11	HEAD, ERASE (EF250-36A)
HRP101	8-825-507-40	HEAD, REC/PB (PP227-3602B)
HRP201	8-825-507-40	HEAD, REC/PB (PP227-3602B)
IC1	8-759-801-24	IC LA1260S
IC2	8-759-833-61	IC LA3361
IC301	8-759-800-66	IC LA3161
IC302	8-759-301-21	IC HA12046
IC303	8-759-800-92	IC LA3220
IC304	8-759-932-80	IC BA328
IC305	8-759-800-71	IC LA2010
IC370 ⚠	8-749-943-01	IC STK4301
IC401	8-759-801-04	IC LB1403N
IC402	8-759-602-04	IC M5226P
IC403	8-759-602-04	IC M5226P
IC701	8-759-201-76	IC TC9310N-027
J101	1-562-839-11	JACK, PIN 4P (PHONO/CD/AUX)
J102	1-562-839-11	JACK, PIN 4P (LINE OUT)
J201	1-562-839-11	JACK, PIN 4P (PHONO/CD/AUX)

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
J202	1-562-839-11	JACK, PIN 4P (LINE OUT)
J301	1-507-834-31	JACK (MIX MIC)
J311	1-507-670-00	JACK, LARGE TYPE (HEADPHONES)
L1	1-425-991-00	COIL (FM RF)
L2	1-459-393-00	COIL (WITH CORE)(FM OSC)
L3	1-402-086-11	ANTENNA, FERRITE-ROD (MW)
L5	1-408-579-00	MICRO INDUCTOR 220UH
L7	1-406-040-00	COIL (MW OSC)
L8	1-402-091-11	COIL (SW1 RF)
L9	1-402-090-11	COIL (SW2 RF)
L10	1-402-089-11	COIL (SW3 RF)
L11	1-402-088-11	COIL (SW4 RF)
L12	1-402-087-11	COIL (SW5 RF)
L13	1-405-983-00	COIL, OSC (SW1 OSC)
L14	1-406-008-00	COIL, OSC (SW2 OSC)
L15	1-405-985-00	COIL, OSC (SW3 OSC)
L16	1-405-986-00	COIL, OSC (SW4 OSC)
L17	1-406-009-00	COIL, OSC (SW5 OSC)
L18	1-408-674-00	MICRO INDUCTOR 0.68UH
L19	1-408-579-00	MICRO INDUCTOR 220UH
L20	1-408-579-00	MICRO INDUCTOR 220UH
L101	1-408-924-00	MICRO INDUCTOR 10MMH
L102	1-408-928-00	MICRO INDUCTOR 22MMH
L201	1-408-924-00	MICRO INDUCTOR 10MMH
L202	1-408-928-00	MICRO INDUCTOR 22MMH
L301	1-407-175-XX	MICRO INDUCTOR 330UH
L701	1-408-579-00	MICRO INDUCTOR 220UH
M701	1-541-239-00	MOTOR (CAPSTAN)
PH701	8-719-902-90	PHOTO INTERRUPTOR SPI201-20
PM701	1-454-351-00	SOLENOID, PLUNGER
PM702	1-454-352-00	SOLENOID, PLUNGER
PM703	1-454-351-00	SOLENOID, PLUNGER
PM704	1-454-353-00	SOLENOID, PLUNGER
Q1	8-729-883-92	TRANSISTOR 2SC2839
Q2	8-729-178-62	TRANSISTOR 2SC2786-L
Q3	8-729-672-42	TRANSISTOR 2SC2724-C
Q4	8-729-103-30	TRANSISTOR 2SC2786-1-LF
Q5	8-729-245-83	TRANSISTOR 2SC2458
Q6	8-729-245-83	TRANSISTOR 2SC2458
Q7	8-729-119-32	TRANSISTOR 2SK193
Q8	8-729-245-83	TRANSISTOR 2SC2458
Q9	8-729-245-83	TRANSISTOR 2SC2458
Q11	8-729-245-83	TRANSISTOR 2SC2458
Q12	8-729-245-83	TRANSISTOR 2SC2458
Q102	8-729-245-83	TRANSISTOR 2SC2458
Q103	8-729-245-83	TRANSISTOR 2SC2458
Q104	8-729-245-83	TRANSISTOR 2SC2458
Q105	8-729-245-83	TRANSISTOR 2SC2458
Q106	8-729-245-83	TRANSISTOR 2SC2458
Q107	8-729-100-13	TRANSISTOR 2SC2001
Q170	8-729-245-83	TRANSISTOR 2SC2458
Q202	8-729-245-83	TRANSISTOR 2SC2458
Q203	8-729-245-83	TRANSISTOR 2SC2458
Q204	8-729-245-83	TRANSISTOR 2SC2458
Q205	8-729-245-83	TRANSISTOR 2SC2458
Q206	8-729-245-83	TRANSISTOR 2SC2458
Q207	8-729-100-13	TRANSISTOR 2SC2001

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q270	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-245-83	TRANSISTOR 2SC2458
Q302	8-729-245-83	TRANSISTOR 2SC2458
Q303	8-729-245-83	TRANSISTOR 2SC2458
Q304	8-729-245-83	TRANSISTOR 2SC2458
Q305	8-729-245-83	TRANSISTOR 2SC2458
Q306	8-729-100-13	TRANSISTOR 2SC2001
Q307	8-729-245-83	TRANSISTOR 2SC2458
Q308	8-729-117-54	TRANSISTOR 2SA1175
Q309	8-729-245-83	TRANSISTOR 2SC2458
Q371	8-729-245-83	TRANSISTOR 2SC2458
Q372	8-729-245-83	TRANSISTOR 2SC2458
Q701	8-729-245-83	TRANSISTOR 2SC2458
Q702	8-729-177-32	TRANSISTOR 2SD773
Q703	8-729-245-83	TRANSISTOR 2SC2458
Q704	8-729-245-83	TRANSISTOR 2SC2458
Q706	8-729-245-83	TRANSISTOR 2SC2458
Q707	8-729-245-83	TRANSISTOR 2SC2458
Q708	8-729-245-83	TRANSISTOR 2SC2458
Q709	8-729-245-83	TRANSISTOR 2SC2458
Q710	8-729-245-83	TRANSISTOR 2SC2458
Q711	8-729-245-83	TRANSISTOR 2SC2458
Q712	8-729-177-32	TRANSISTOR 2SD773
Q713	8-729-245-83	TRANSISTOR 2SC2458
Q751	8-729-245-83	TRANSISTOR 2SC2458
Q752	8-729-245-83	TRANSISTOR 2SC2458
Q901	8-729-177-23	TRANSISTOR 2SB772
Q902	8-729-831-33	TRANSISTOR 2SD313HP
Q903	8-729-245-83	TRANSISTOR 2SC2458
R1	1-247-891-00	CARBON 330K 5% 1/6W
R2	1-247-819-00	CARBON 330 5% 1/6W
R3	1-247-807-00	CARBON 100 5% 1/6W
R4	1-247-847-00	CARBON 4.7K 5% 1/6W
R5	1-247-879-00	CARBON 100K 5% 1/6W
R6	1-247-799-00	CARBON 47 5% 1/6W
R7	1-247-879-00	CARBON 100K 5% 1/6W
R8	1-247-879-00	CARBON 100K 5% 1/6W
R9	1-247-883-00	CARBON 150K 5% 1/6W
R10	1-247-827-00	CARBON 680 5% 1/6W
R11	1-247-889-00	CARBON 270K 5% 1/6W
R12	1-247-819-00	CARBON 330 5% 1/6W
R13	1-247-827-00	CARBON 680 5% 1/6W
R14	1-247-889-00	CARBON 270K 5% 1/6W
R15	1-247-819-00	CARBON 330 5% 1/6W
R16	1-247-819-00	CARBON 330 5% 1/6W
R17	1-247-807-00	CARBON 100 5% 1/6W
R18	1-247-807-00	CARBON 100 5% 1/6W
R19	1-247-851-00	CARBON 6.8K 5% 1/6W
R20	1-247-793-00	CARBON 27 5% 1/6W
R21	1-247-831-00	CARBON 1K 5% 1/6W
R22	1-247-847-00	CARBON 4.7K 5% 1/6W
R23	1-247-851-00	CARBON 6.8K 5% 1/6W
R24	1-247-867-00	CARBON 33K 5% 1/6W
R25	1-247-879-00	CARBON 100K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R26	1-247-807-00	CARBON 100 5% 1/6W
R27	1-247-795-00	CARBON 33 5% 1/6W
R28	1-247-827-00	CARBON 680 5% 1/6W
R29	1-249-421-11	CARBON 2.2K 5% 1/6W
R30	1-247-107-00	CARBON 100 5% 1/4W F
R31	1-247-847-00	CARBON 4.7K 5% 1/6W
R32	1-247-847-00	CARBON 4.7K 5% 1/6W
R33	1-247-887-00	CARBON 220K 5% 1/6W
R34	1-247-821-00	CARBON 390 5% 1/6W
R35	1-247-813-00	CARBON 180 5% 1/6W
R36	1-247-807-00	CARBON 100 5% 1/6W
R37	1-247-825-00	CARBON 560 5% 1/6W
R38	1-247-879-00	CARBON 100K 5% 1/6W
R39	1-247-879-00	CARBON 100K 5% 1/6W
R40	1-247-863-00	CARBON 22K 5% 1/6W
R41	1-249-421-11	CARBON 2.2K 5% 1/6W
R42	1-247-855-00	CARBON 10K 5% 1/6W
R43	1-247-107-00	CARBON 100 5% 1/4W F
R44	1-247-855-00	CARBON 10K 5% 1/6W
R45	1-247-855-00	CARBON 10K 5% 1/6W
R46	1-247-822-00	CARBON 430 5% 1/6W
R47	1-247-863-00	CARBON 22K 5% 1/6W
R48	1-247-854-00	CARBON 9.1K 5% 1/6W
R49	1-247-831-00	CARBON 1K 5% 1/6W
R50	1-247-838-00	CARBON 2K 5% 1/6W
R51	1-247-838-00	CARBON 2K 5% 1/6W
R52	1-247-834-00	CARBON 1.3K 5% 1/6W
R53	1-247-834-00	CARBON 1.3K 5% 1/6W
R54	1-247-847-00	CARBON 4.7K 5% 1/6W
R55	1-247-863-00	CARBON 22K 5% 1/6W
R56	1-247-826-00	CARBON 620 5% 1/6W
R57	1-247-807-00	CARBON 100 5% 1/6W
R58	1-247-819-00	CARBON 330 5% 1/6W
R59	1-249-421-11	CARBON 2.2K 5% 1/6W
R60	1-249-421-11	CARBON 2.2K 5% 1/6W
R101	1-249-421-11	CARBON 2.2K 5% 1/6W
R102	1-247-881-00	CARBON 120K 5% 1/6W
R103	1-247-794-00	CARBON 30 5% 1/6W
R104	1-247-822-00	CARBON 430 5% 1/6W
R105	1-247-855-00	CARBON 10K 5% 1/6W
R106	1-247-876-00	CARBON 75K 5% 1/6W
R108	1-247-873-00	CARBON 56K 5% 1/6W
R109	1-247-855-00	CARBON 10K 5% 1/6W
R110	1-247-843-00	CARBON 3.3K 5% 1/6W
R111	1-247-871-00	CARBON 47K 5% 1/6W
R112	1-247-850-00	CARBON 6.2K 5% 1/6W
R113	1-247-871-00	CARBON 47K 5% 1/6W
R114	1-247-883-00	CARBON 150K 5% 1/6W
R115	1-247-831-00	CARBON 1K 5% 1/6W
R116	1-247-872-00	CARBON 51K 5% 1/6W
R117	1-247-831-00	CARBON 1K 5% 1/6W
R118	1-247-817-00	CARBON 270 5% 1/6W
R120	1-247-846-00	CARBON 4.3K 5% 1/6W
R121	1-247-843-00	CARBON 3.3K 5% 1/6W
R122	1-247-845-00	CARBON 3.9K 5% 1/6W
R123	1-247-783-00	CARBON 10 5% 1/6W
R124	1-247-855-00	CARBON 10K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R125	1-247-855-00	CARBON 10K 5% 1/6W
R126	1-247-855-00	CARBON 10K 5% 1/6W
R127	1-247-859-00	CARBON 15K 5% 1/6W
R128	1-247-831-00	CARBON 1K 5% 1/6W
R129	1-247-855-00	CARBON 10K 5% 1/6W
R130	1-247-831-00	CARBON 1K 5% 1/6W
R131	1-247-831-00	CARBON 1K 5% 1/6W
R132	1-247-872-00	CARBON 51K 5% 1/6W
R133	1-247-855-00	CARBON 10K 5% 1/6W
R144	1-247-831-00	CARBON 1K 5% 1/6W
R145	1-247-871-00	CARBON 47K 5% 1/6W
R146	1-247-856-00	CARBON 11K 5% 1/6W
R147	1-247-879-00	CARBON 100K 5% 1/6W
R148	1-247-823-00	CARBON 470 5% 1/6W
R149	1-247-871-00	CARBON 47K 5% 1/6W
R150	1-247-852-00	CARBON 7.5K 5% 1/6W
R151	1-247-849-00	CARBON 5.6K 5% 1/6W
R152	1-247-847-00	CARBON 4.7K 5% 1/6W
R153	1-247-852-00	CARBON 7.5K 5% 1/6W
R170	1-247-855-00	CARBON 10K 5% 1/6W
R171	1-247-852-00	CARBON 7.5K 5% 1/6W
R172	1-247-866-00	CARBON 30K 5% 1/6W
R173	1-247-863-00	CARBON 22K 5% 1/6W
R174	1-247-799-00	CARBON 47 5% 1/6W
R175	1-247-843-00	CARBON 3.3K 5% 1/6W
R176 ⚠	1-217-383-00	FUSIBLE 4.7 5% 1/4W F
R177 ⚠	1-206-647-00	METAL OXIDE 200 5% 2W F
R178	1-247-122-00	CARBON 430 5% 1/4W
R179	1-247-122-00	CARBON 430 5% 1/4W
R180	1-247-863-00	CARBON 22K 5% 1/6W
R181 ⚠	1-206-647-00	METAL OXIDE 200 5% 2W F
R301 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R303	1-247-855-00	CARBON 10K 5% 1/6W
R304	1-247-843-00	CARBON 3.3K 5% 1/6W
R305	1-247-861-00	CARBON 18K 5% 1/6W
R306	1-247-896-00	CARBON 510K 5% 1/6W
R307	1-247-842-00	CARBON 3K 5% 1/6W
R308	1-247-831-00	CARBON 1K 5% 1/6W
R309	1-247-848-00	CARBON 5.1K 5% 1/6W
R310	1-247-891-00	CARBON 330K 5% 1/6W
R311	1-202-472-00	SOLID 5.1M 5% 1/4W
R312 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R313 ⚠	1-212-863-00	FUSIBLE 18 5% 1/4W F
R314	1-247-102-00	CARBON 62 5% 1/4W
R315	1-247-097-00	CARBON 39 5% 1/4W
R316	1-247-831-00	CARBON 1K 5% 1/6W
R317	1-247-831-00	CARBON 1K 5% 1/6W
R318	1-247-831-00	CARBON 1K 5% 1/6W
R319	1-247-855-00	CARBON 10K 5% 1/6W
R320	1-247-843-00	CARBON 3.3K 5% 1/6W
R321	1-247-843-00	CARBON 3.3K 5% 1/6W
R322	1-247-807-00	CARBON 100 5% 1/6W
R323	1-247-843-00	CARBON 3.3K 5% 1/6W
R324	1-247-855-00	CARBON 10K 5% 1/6W
R325	1-249-421-11	CARBON 2.2K 5% 1/6W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
R326	1-247-866-00	CARBON 30K 5% 1/6W
R327	1-249-421-11	CARBON 2.2K 5% 1/6W
R328	1-247-876-00	CARBON 75K 5% 1/6W
R329	1-247-849-00	CARBON 5.6K 5% 1/6W
R330	1-247-831-00	CARBON 1K 5% 1/6W
R331 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R332	1-247-879-00	CARBON 100K 5% 1/6W
R333	1-247-900-00	CARBON 750K 5% 1/6W
R334	1-247-863-00	CARBON 22K 5% 1/6W
R335	1-247-866-00	CARBON 30K 5% 1/6W
R336	1-247-889-00	CARBON 270K 5% 1/6W
R337	1-247-843-00	CARBON 3.3K 5% 1/6W
R338	1-247-794-00	CARBON 30 5% 1/6W
R339	1-247-831-00	CARBON 1K 5% 1/6W
R340	1-247-879-00	CARBON 100K 5% 1/6W
R341	1-247-831-00	CARBON 1K 5% 1/6W
R342 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R373	1-247-847-00	CARBON 4.7K 5% 1/6W
R374	1-247-855-00	CARBON 10K 5% 1/6W
R375	1-247-831-00	CARBON 1K 5% 1/6W
R376	1-247-879-00	CARBON 100K 5% 1/6W
R377	1-247-876-00	CARBON 75K 5% 1/6W
R378	1-247-855-00	CARBON 10K 5% 1/6W
R379	1-247-122-00	CARBON 430 5% 1/4W
R380	1-247-122-00	CARBON 430 5% 1/4W
R381	1-249-421-11	CARBON 2.2K 5% 1/6W
R382	1-247-876-00	CARBON 75K 5% 1/6W
R401	1-247-848-00	CARBON 5.1K 5% 1/6W
R402	1-247-845-00	CARBON 3.9K 5% 1/6W
R403	1-247-848-00	CARBON 5.1K 5% 1/6W
R404 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R411	1-247-847-00	CARBON 4.7K 5% 1/6W
R412	1-247-847-00	CARBON 4.7K 5% 1/6W
R413	1-247-847-00	CARBON 4.7K 5% 1/6W
R414	1-247-847-00	CARBON 4.7K 5% 1/6W
R418	1-247-852-00	CARBON 7.5K 5% 1/6W
R419	1-247-852-00	CARBON 7.5K 5% 1/6W
R701	1-247-866-00	CARBON 30K 5% 1/6W
R702	1-247-855-00	CARBON 10K 5% 1/6W
R703	1-247-811-00	CARBON 150 5% 1/6W
R704	1-247-864-00	CARBON 24K 5% 1/6W
R705	1-247-879-00	CARBON 100K 5% 1/6W
R706	1-247-891-00	CARBON 330K 5% 1/6W
R707	1-247-825-00	CARBON 560 5% 1/6W
R708	1-247-855-00	CARBON 10K 5% 1/6W
R709	1-247-871-00	CARBON 47K 5% 1/6W
R710	1-247-855-00	CARBON 10K 5% 1/6W
R711	1-249-421-11	CARBON 2.2K 5% 1/6W
R712	1-247-855-00	CARBON 10K 5% 1/6W
R713	1-247-855-00	CARBON 10K 5% 1/6W
R714	1-247-849-00	CARBON 5.6K 5% 1/6W
R715	1-247-849-00	CARBON 5.6K 5% 1/6W
R716	1-247-849-00	CARBON 5.6K 5% 1/6W
R717	1-247-835-00	CARBON 1.5K 5% 1/6W
R718	1-247-821-00	CARBON 390 5% 1/6W
R719	1-247-818-00	CARBON 300 5% 1/6W
R720	1-247-818-00	CARBON 300 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R721	1-247-855-00	CARBON	10K	5%	1/6W
R722	1-247-859-00	CARBON	15K	5%	1/6W
R723	1-247-855-00	CARBON	10K	5%	1/6W
R724	1-247-866-00	CARBON	30K	5%	1/6W
R725	1-247-855-00	CARBON	10K	5%	1/6W
R726	1-249-421-11	CARBON	2.2K	5%	1/6W
R751	1-247-891-00	CARBON	330K	5%	1/6W
R752	1-247-873-00	CARBON	56K	5%	1/6W
R753	1-247-831-00	CARBON	1K	5%	1/6W
R755	1-247-835-00	CARBON	1.5K	5%	1/6W
R756	1-247-831-00	CARBON	1K	5%	1/6W
R757	1-247-831-00	CARBON	1K	5%	1/6W
R758	1-247-831-00	CARBON	1K	5%	1/6W
R759	1-247-831-00	CARBON	1K	5%	1/6W
R760	1-247-831-00	CARBON	1K	5%	1/6W
R761	1-247-831-00	CARBON	1K	5%	1/6W
R762	1-247-831-00	CARBON	1K	5%	1/6W
R763	1-247-831-00	CARBON	1K	5%	1/6W
R764	1-247-831-00	CARBON	1K	5%	1/6W
R765	1-247-831-00	CARBON	1K	5%	1/6W
R901	1-247-815-00	CARBON	220	5%	1/6W
R902	1-247-831-00	CARBON	1K	5%	1/6W
R903	1-247-903-00	CARBON	1M	5%	1/6W
R904	1-247-831-00	CARBON	1K	5%	1/6W
R906 ⚠	1-247-224-00	CARBON	220	5%	1/2W F
R907	1-247-866-00	CARBON	30K	5%	1/6W
RV1	1-230-066-00	RES, ADJ, CARBON 4.7K			
RV101	1-226-237-00	RES, ADJ, CARBON 20K			
RV102	1-226-432-00	RES, ADJ, CARBON 20K			
RV103	1-226-435-00	RES, ADJ, CARBON 200K			
RV201	1-226-237-00	RES, ADJ, CARBON 20K			
RV202	1-226-432-00	RES, ADJ, CARBON 20K			
RV203	1-226-435-00	RES, ADJ, CARBON 200K			
RV401	1-230-416-11	RES, VAR, SLIDE 100K/100K (12kHz)			
RV402	1-230-416-11	RES, VAR, SLIDE 100K/100K (4kHz)			
RV403	1-230-416-11	RES, VAR, SLIDE 100K/100K (1kHz)			
RV404	1-230-416-11	RES, VAR, SLIDE 100K/100K (400kHz)			
RV405	1-230-416-11	RES, VAR, SLIDE 100K/100K (100kHz)			
RV406	1-230-394-11	RES, VAR, SLIDE 100K (BALANCE)			
RV407	1-230-393-11	RES, VAR, SLIDE 20K/20K (VOLUME)			
S1	1-570-247-11	SWITCH, PUSH (3 KEY)(FM)			
S2	1-570-247-11	SWITCH, PUSH (3 KEY)(MUTE)			
S3	1-570-247-11	SWITCH, PUSH (3 KEY)(MW)			
S4	1-570-247-11	SWITCH, PUSH (3 KEY)(SW)			
S5	1-554-803-11	SWITCH, LEVER SLIDE (SW1-5)			
S301	1-554-828-11	SWITCH, SLIDE (REC/PB)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S302	1-554-799-11	SWITCH, PUSH (3 KEY)(TAPE)
S303	1-554-799-11	SWITCH, PUSH (3 KEY)(TUNER)
S304	1-554-799-11	SWITCH, PUSH (3 KEY)(CD/AUX)
S305	1-554-795-11	SWITCH, SLIDE (DOLBY NR)
S306	1-554-799-11	SWITCH, PUSH (3 KEY)(MUTING)
S307	1-554-798-11	SWITCH, SLIDE (ISS/FM MODE)
S308	1-554-796-11	SWITCH, SLIDE (PHONO/CD/AUX)
S309	1-554-468-00	SWITCH, LEAF
S310	1-554-468-00	SWITCH, LEAF
S701	1-552-412-00	SWITCH, KEY BOARD (REW)
S702	1-552-412-00	SWITCH, KEY BOARD (REV)
S703	1-552-412-00	SWITCH, KEY BOARD (STOP)
S704	1-552-412-00	SWITCH, KEY BOARD (FWD)
S705	1-552-412-00	SWITCH, KEY BOARD (FF)
S706	1-552-412-00	SWITCH, KEY BOARD (REC)
S707	1-552-412-00	SWITCH, KEY BOARD (PAUSE)
S708	1-552-412-00	SWITCH, KEY BOARD (AUTO PLAY)
S709	1-552-412-00	SWITCH, KEY BOARD (REC MUTE)
S710	1-554-797-11	SWITCH, SLIDE (TIMER)
S711	1-554-797-11	SWITCH, SLIDE (MODE)
S901 ⚠	1-553-318-31	SWITCH, PUSH (1 KEY)(POWER)
S902	1-554-488-00	SWITCH, SLIDE (POWER)
T1	1-404-249-00	COIL, FM DETECTOR
T2	1-404-455-00	TRANSFORMER, IF
T901 ⚠	1-447-815-11	(E).....TRANSFORMER, POWER
T901 ⚠	1-448-276-11	(Canadian)...TRANSFORMER, POWER
TB301	1-536-834-11	TERMINAL BOARD (SPEAKER)
VS901 ⚠	1-526-576-51	SELECTOR, POWER VOLTAGE

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